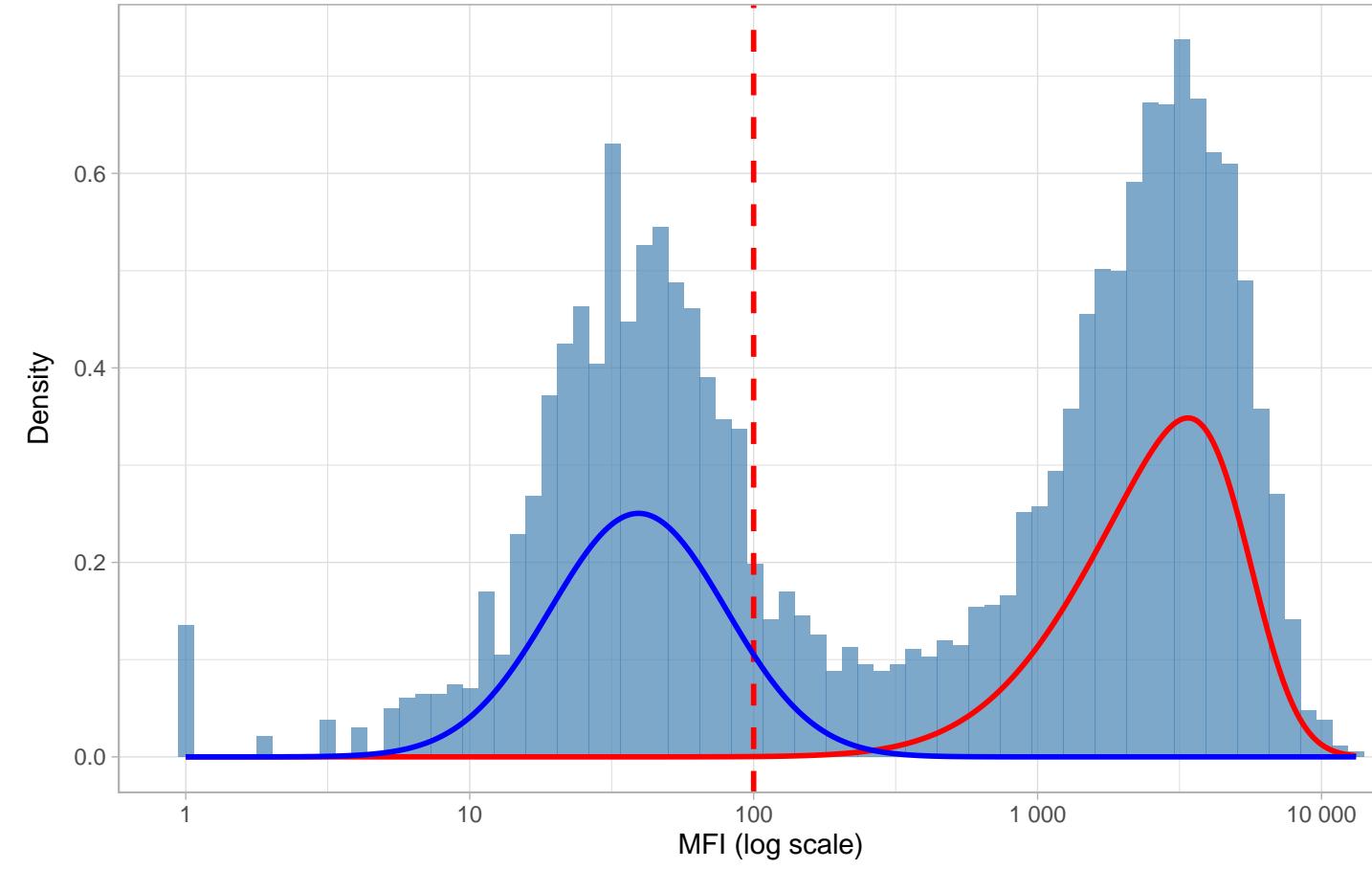


Comprehensive Diagnostics: cmv_pp150

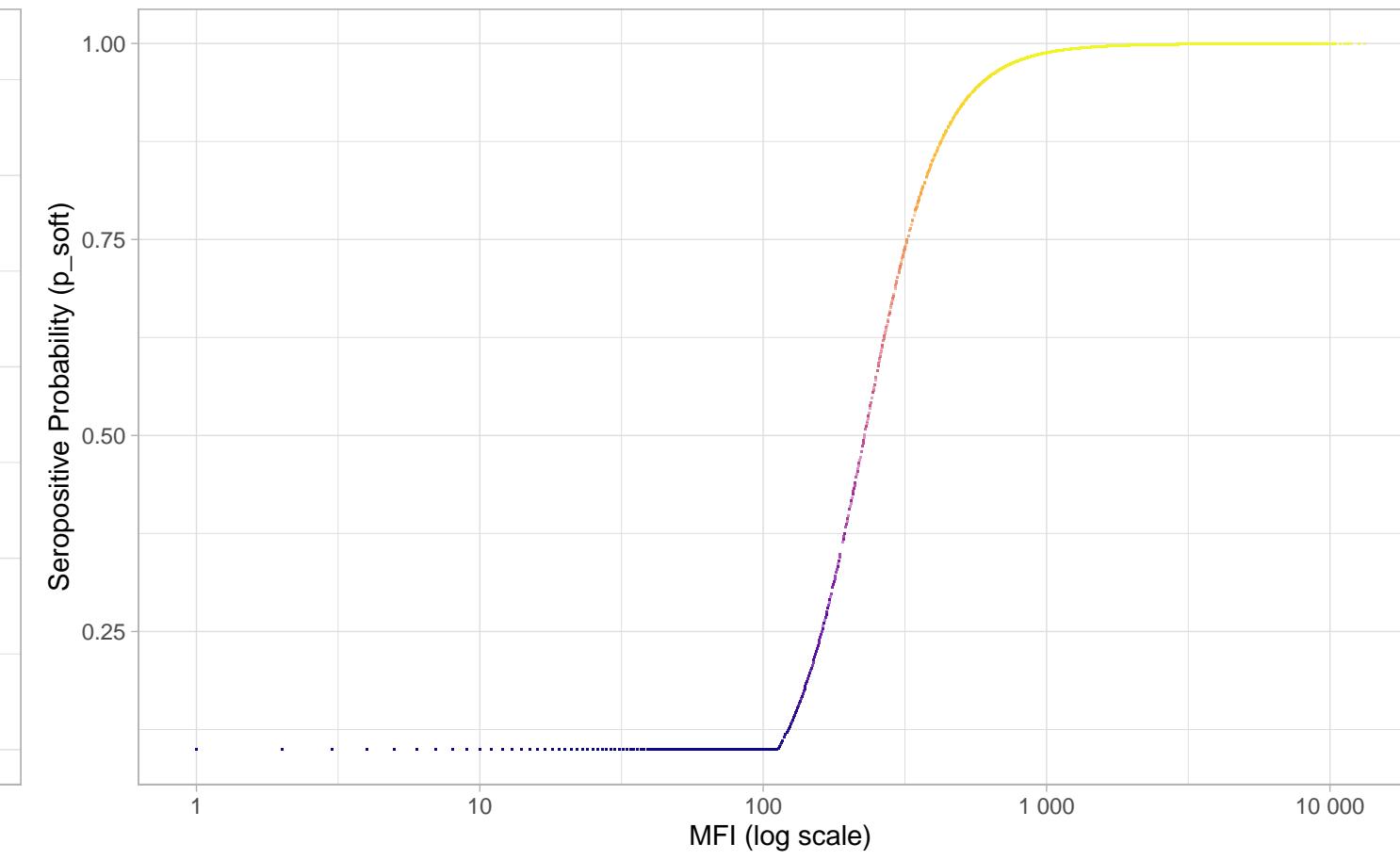
N=9424 | >0.95=4722 | <0.05=0 Ambig=4702

MFI Distribution: cmv_pp150

BL Hard Threshold = 100

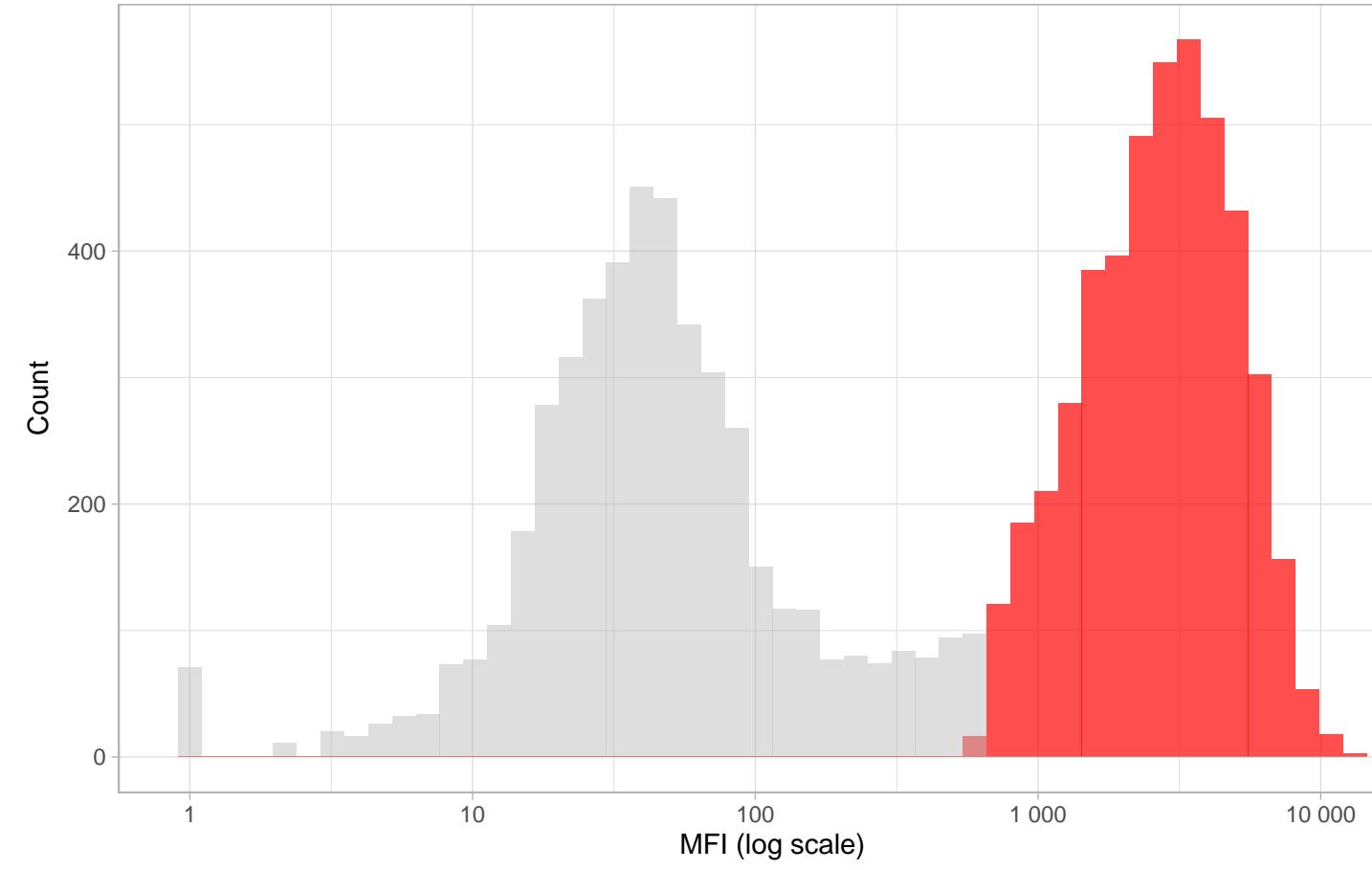


IgG vs Seropositive Probability: cmv_pp150



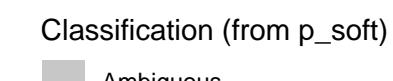
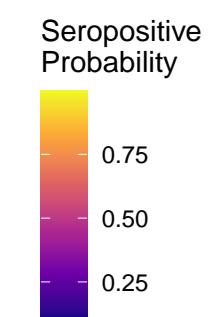
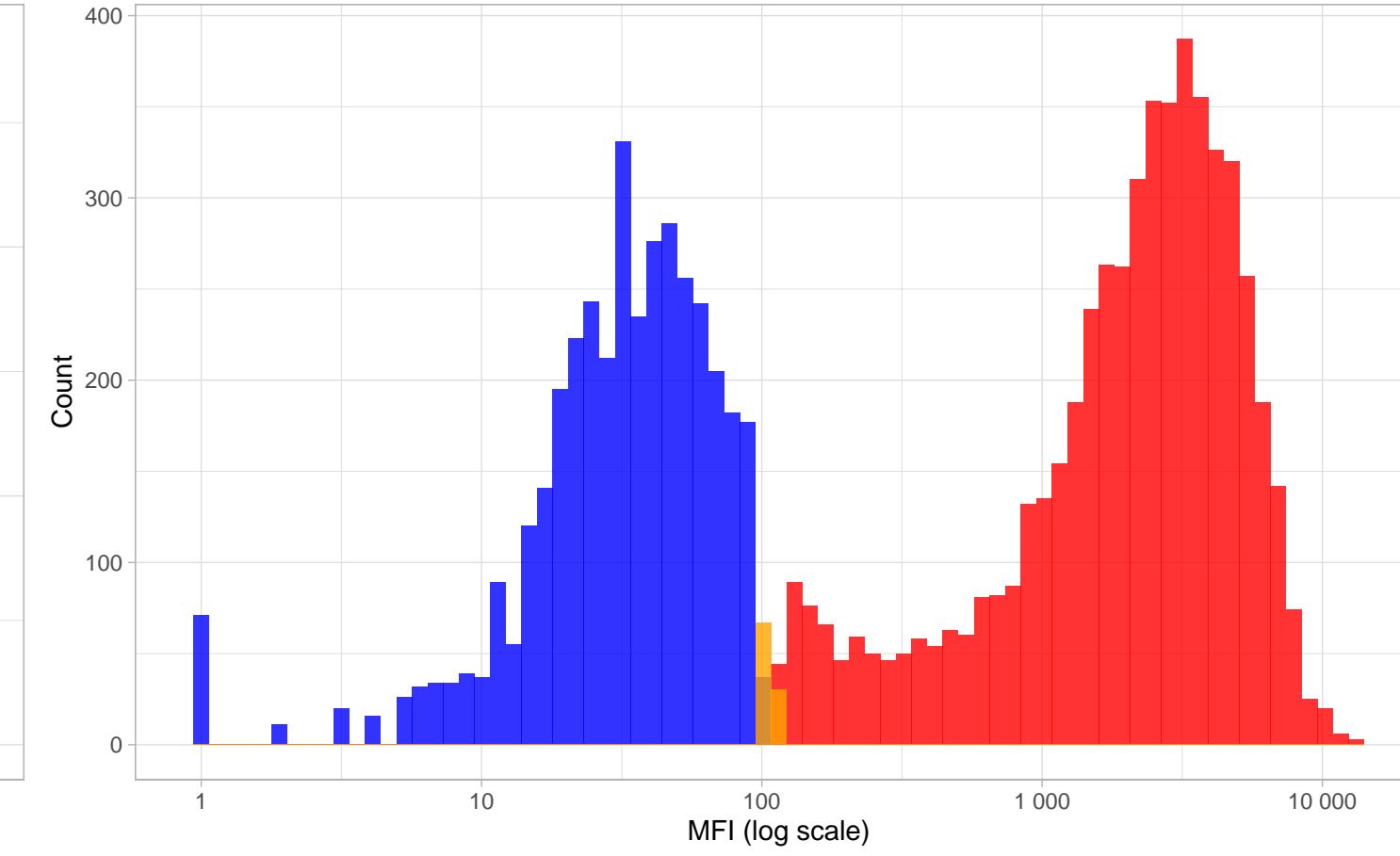
Distribution by Confidence: cmv_pp150

Prob threshold = 0.96



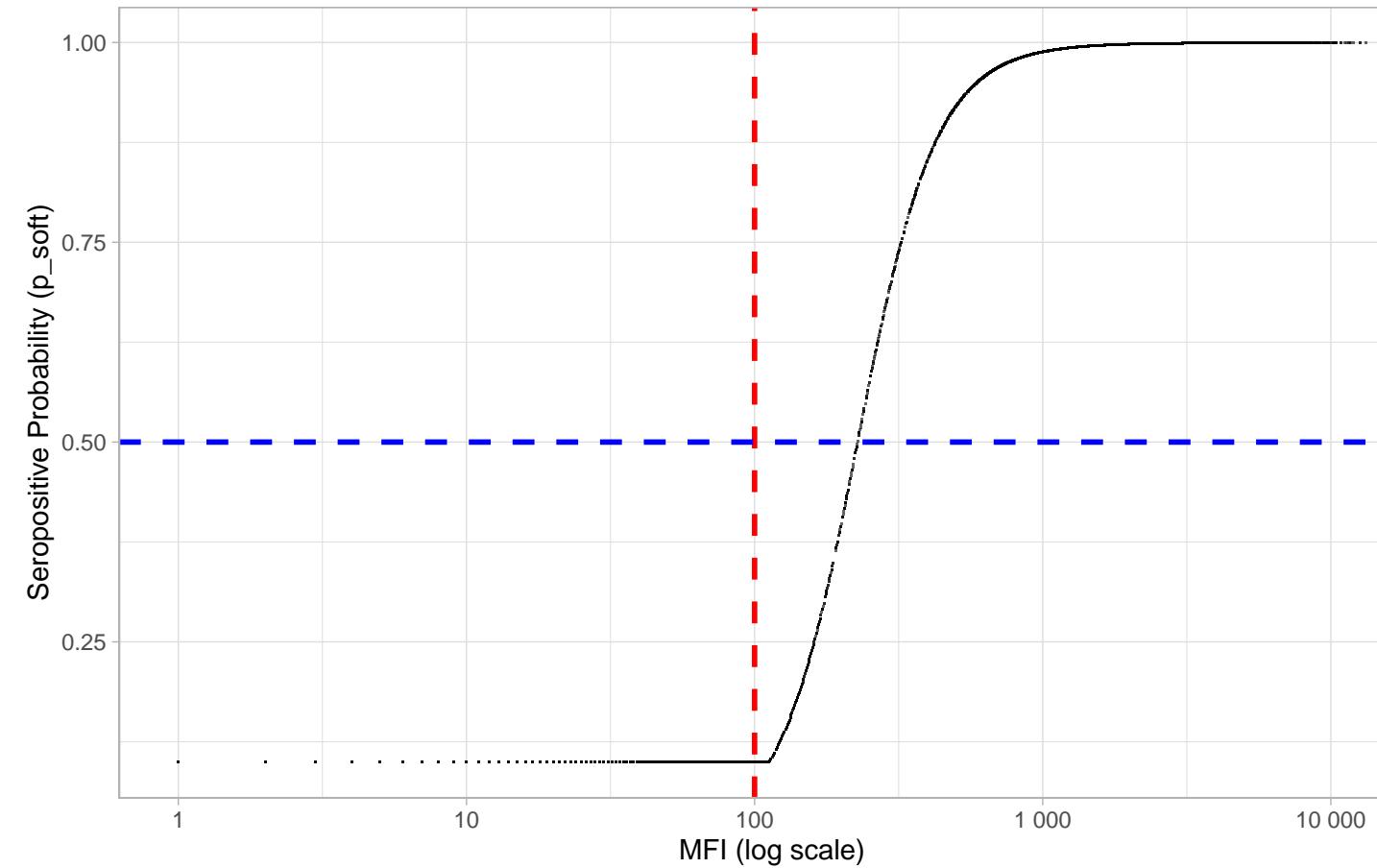
Phenotype Distribution by Classification: cmv_pp150

Comparing BL vs. Mixture–Model Hard Calls



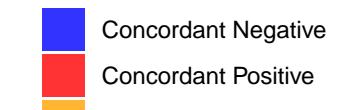
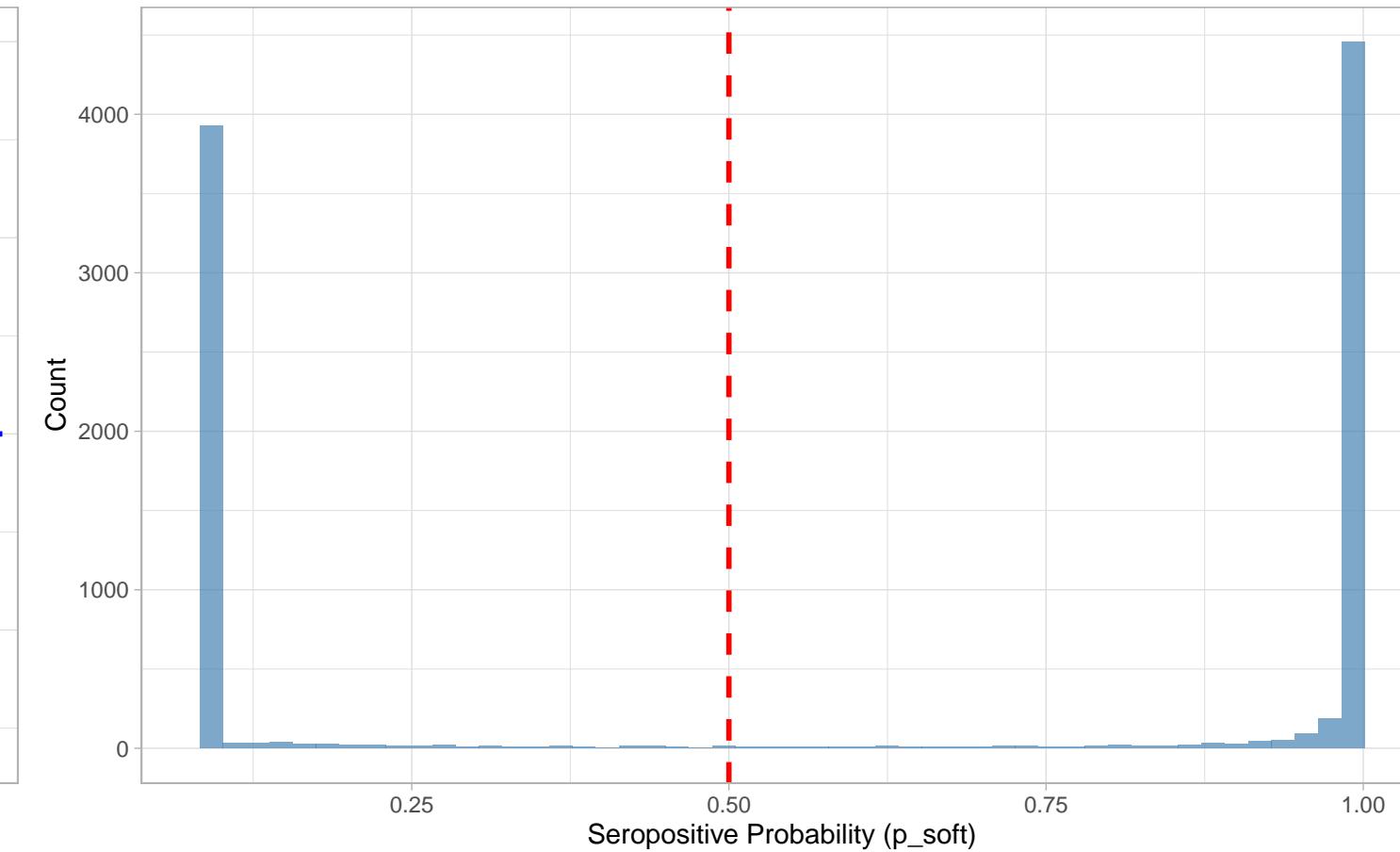
IgG Level vs. Seropositive Probability: cmv_pp150

Red line = BL threshold, Blue line = 50% probability



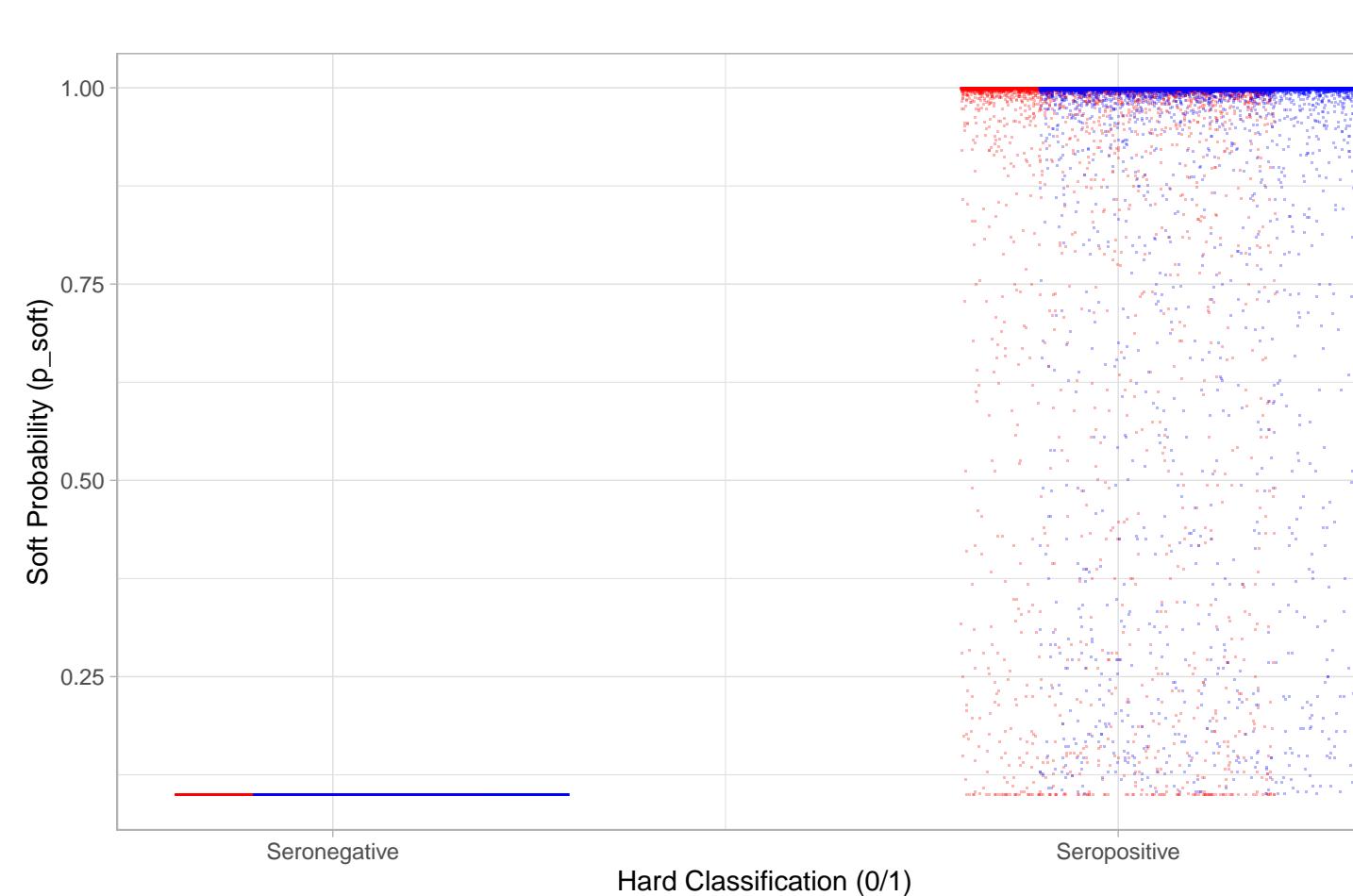
Distribution of Seropositive Probabilities: cmv_pp150

Red line = 50% threshold



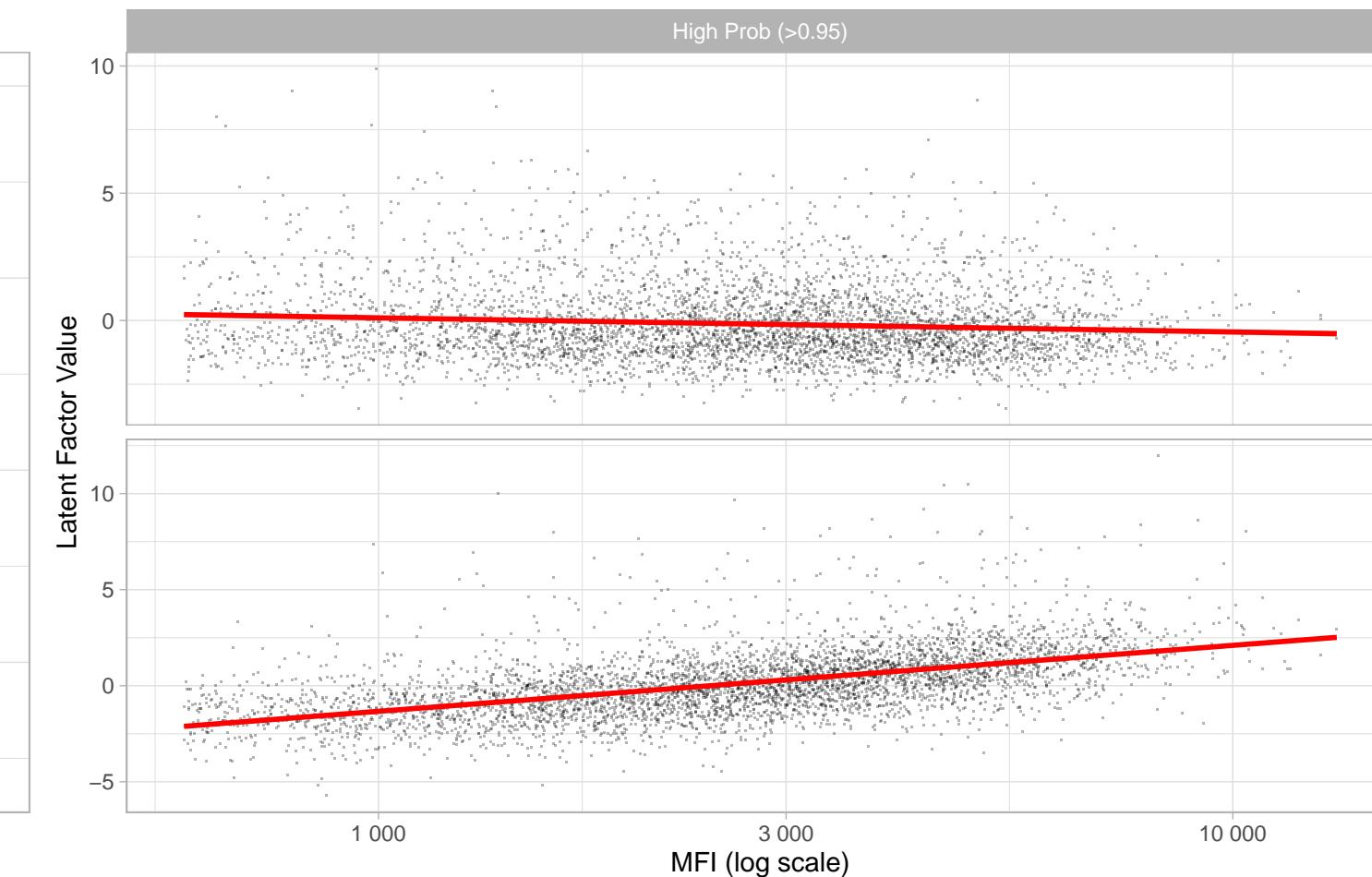
Hard Calls vs. Soft Probability: cmv_pp150

Comparing BL and Mixture–Model hard calls against p_soft



Latent Factor Components vs IgG Level: cmv_pp150

Top: latent_factor_1 (seroneg), Bottom: latent_factor_2 (seropos)

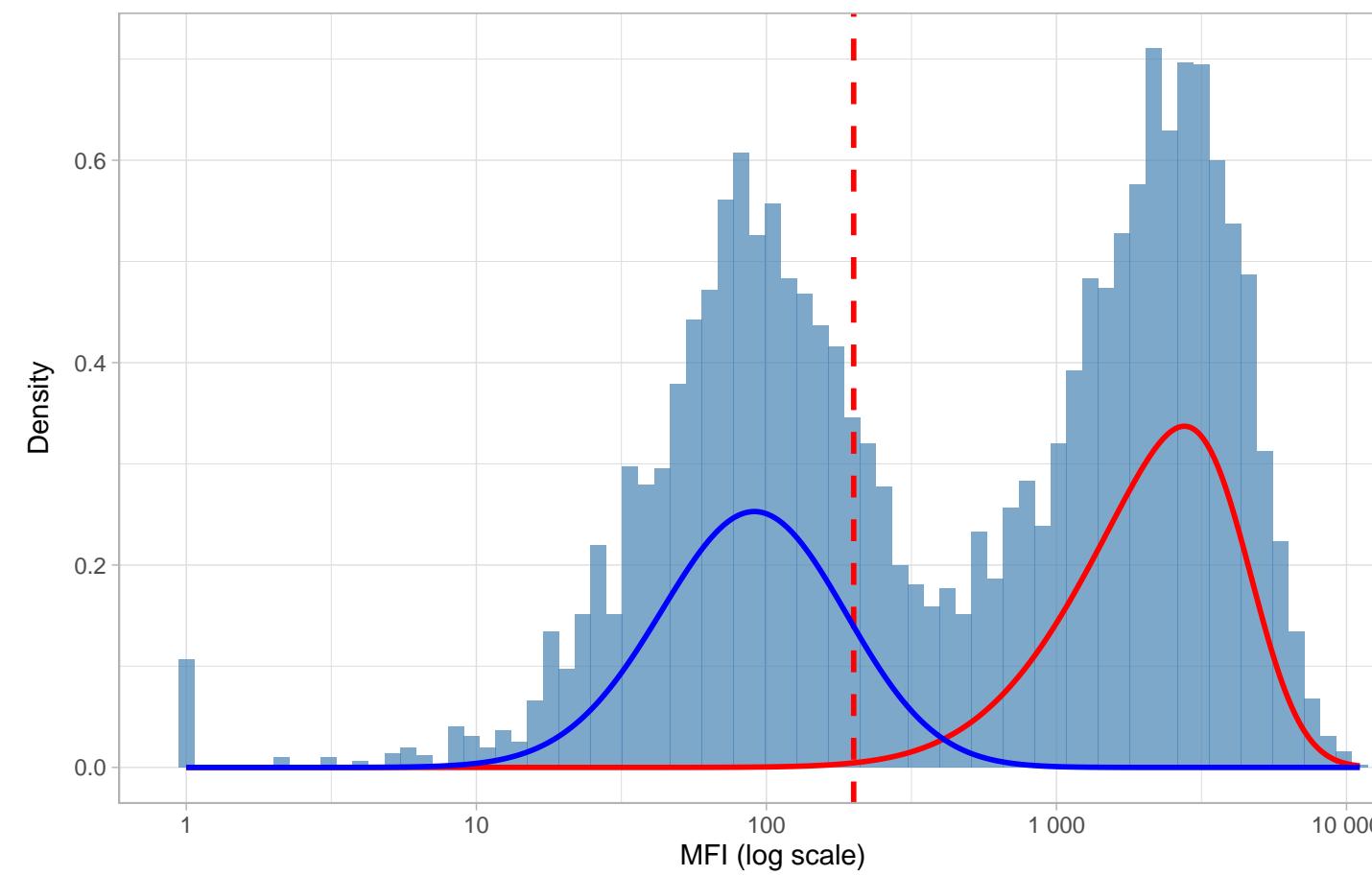


Comprehensive Diagnostics: cmv_pp28

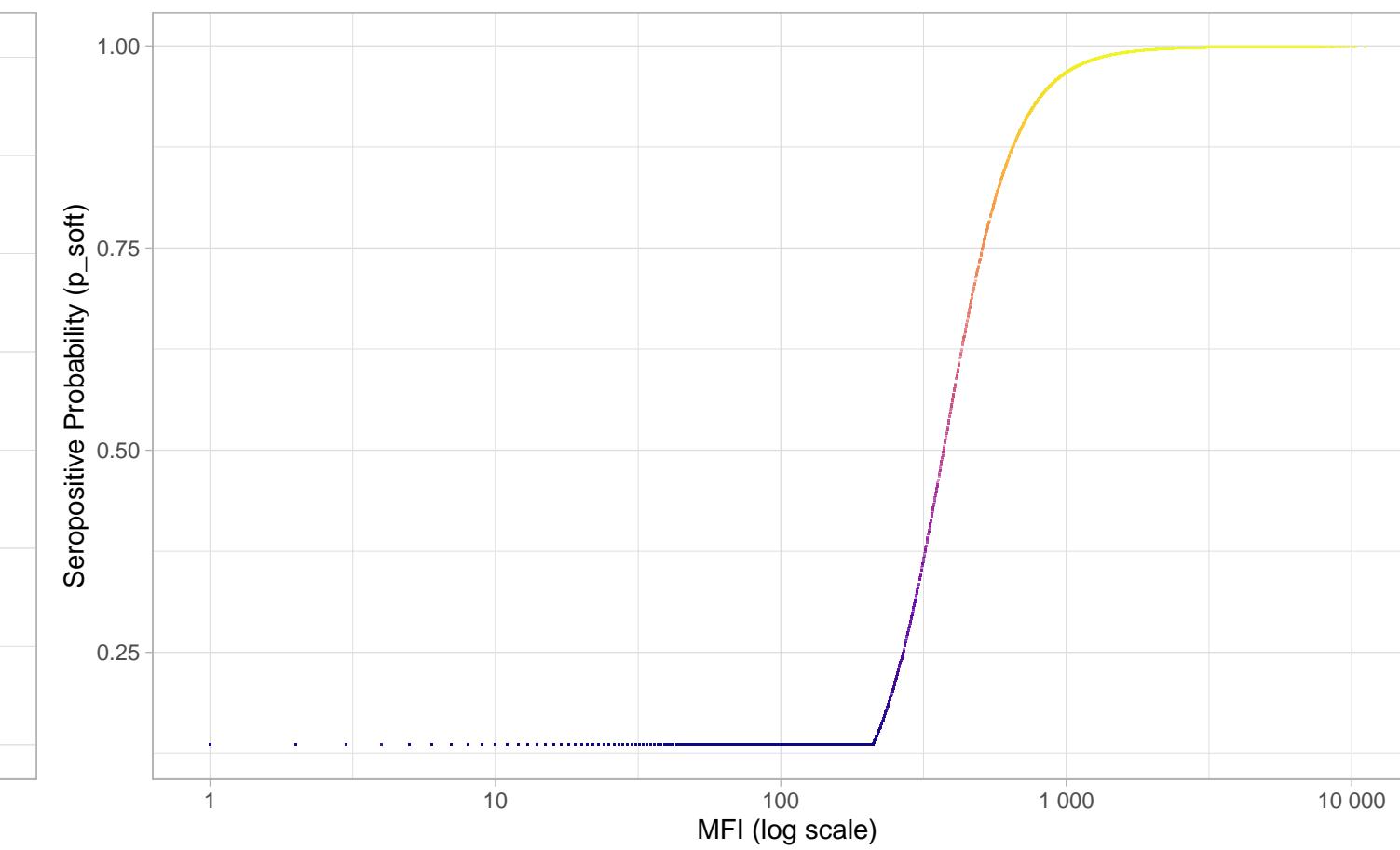
N=9424 | >0.95=4172 | <0.05=0 | Ambig=5252

MFI Distribution: cmv_pp28

BL Hard Threshold = 200

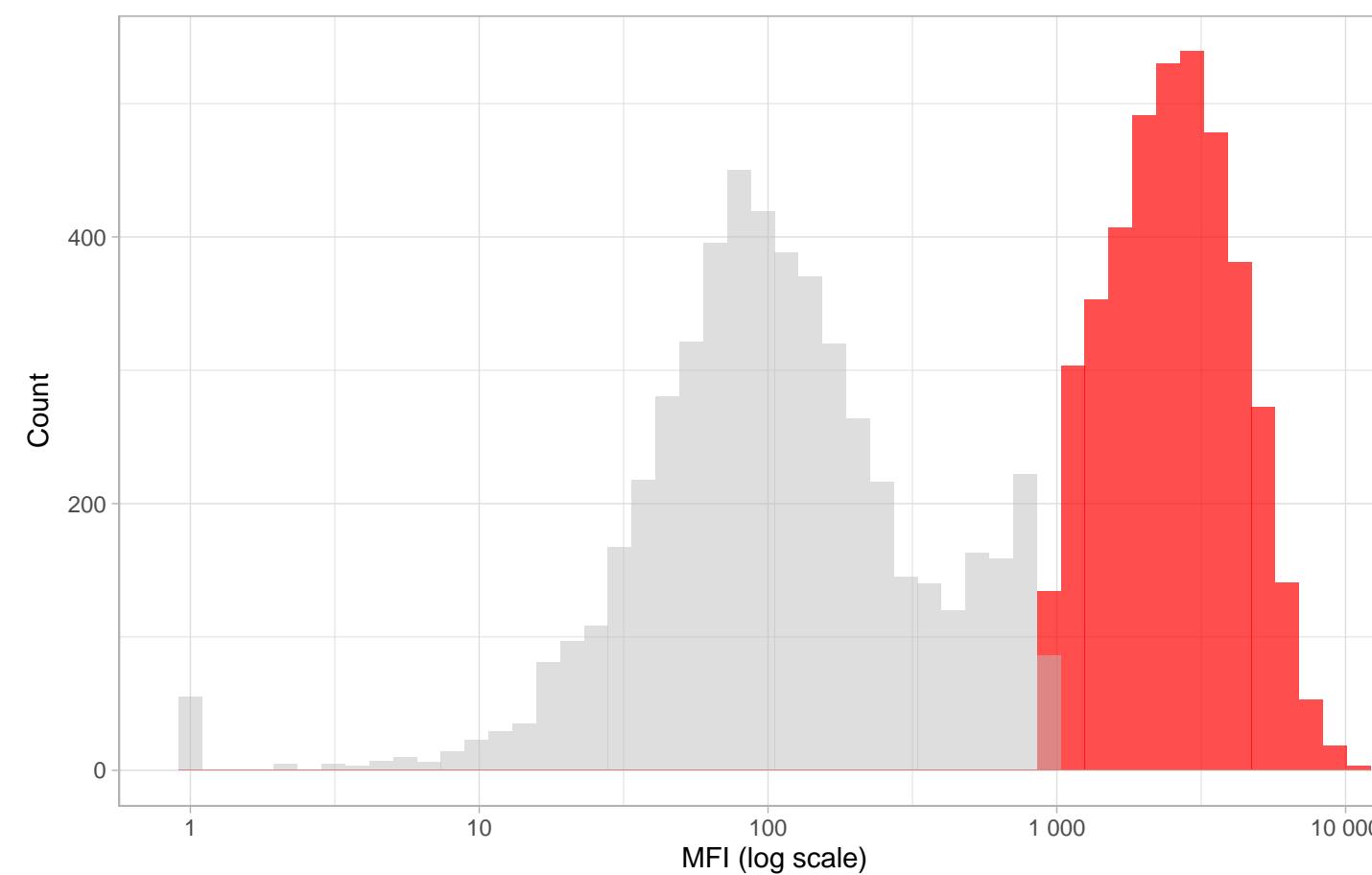


IgG vs Seropositive Probability: cmv_pp28



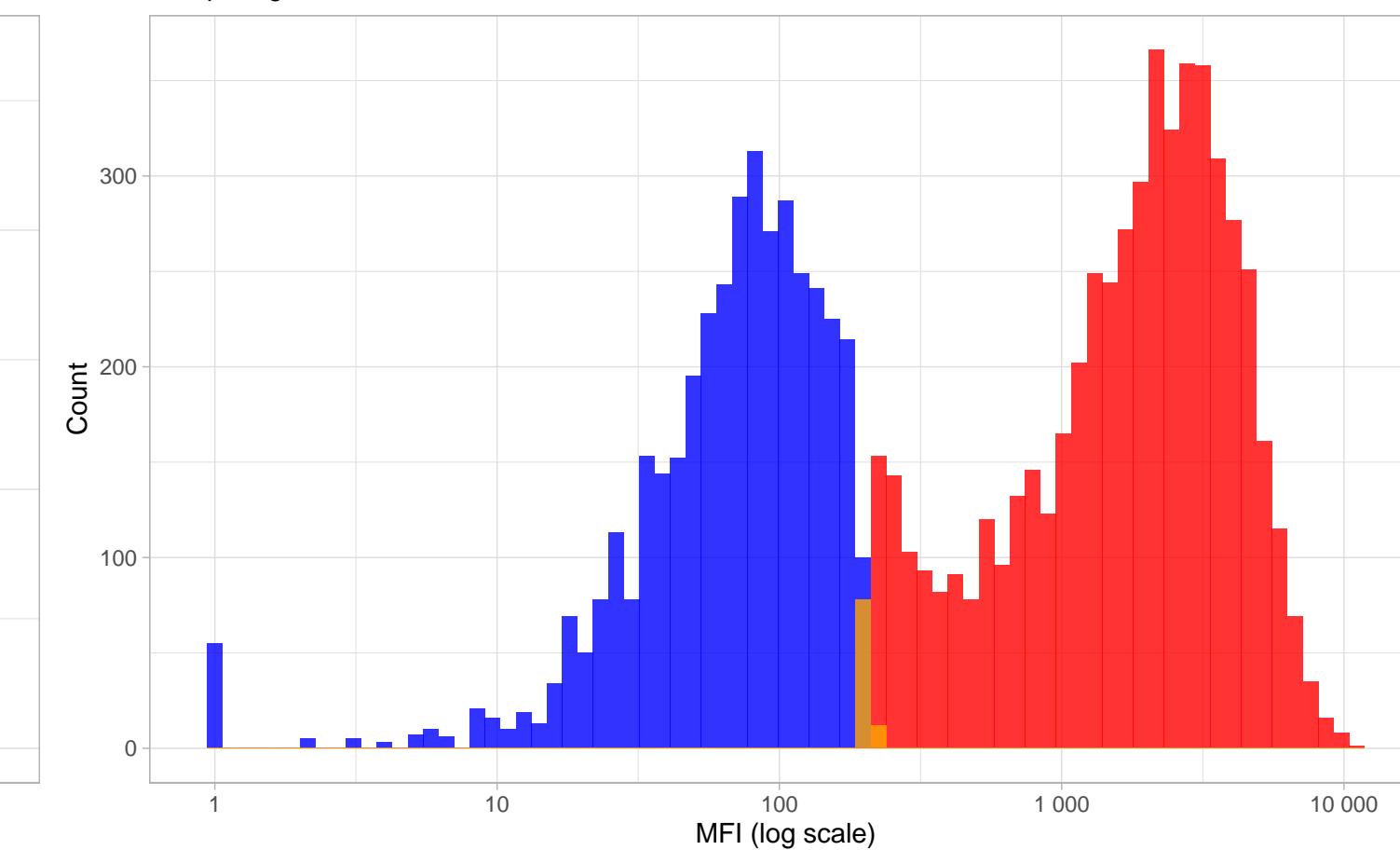
Distribution by Confidence: cmv_pp28

Prob threshold = 0.96



Phenotype Distribution by Classification: cmv_pp28

Comparing BL vs. Mixture-Model Hard Calls



Seropositive Probability

0.75
0.50
0.25

Classification (from p_soft)

Ambiguous
High-conf Positive

Classification

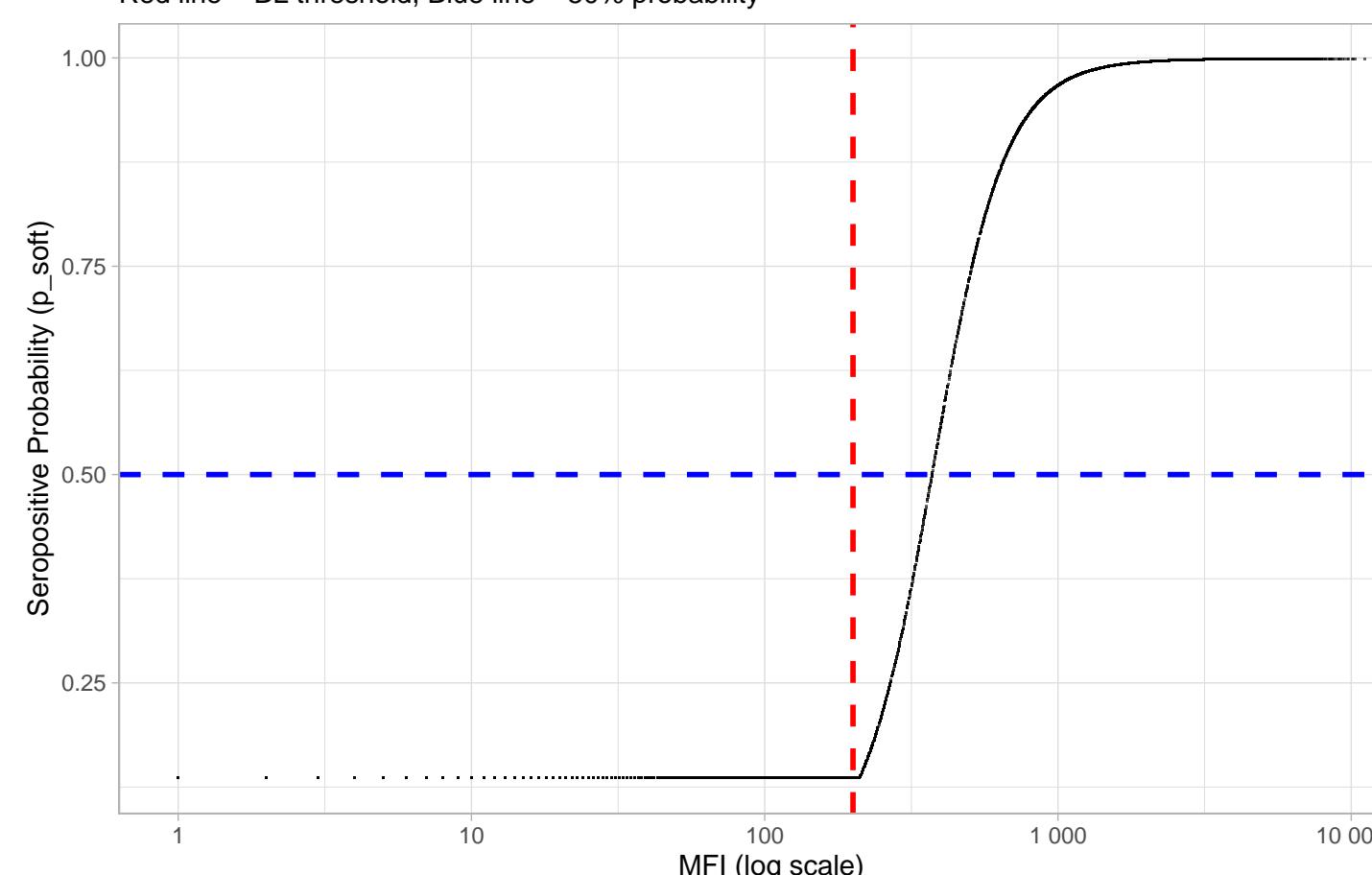
Concordant Negative
Concordant Positive
Discordant (BL+, Mix-)

Hard Call Type

BL Hard Call
Mix Hard Call

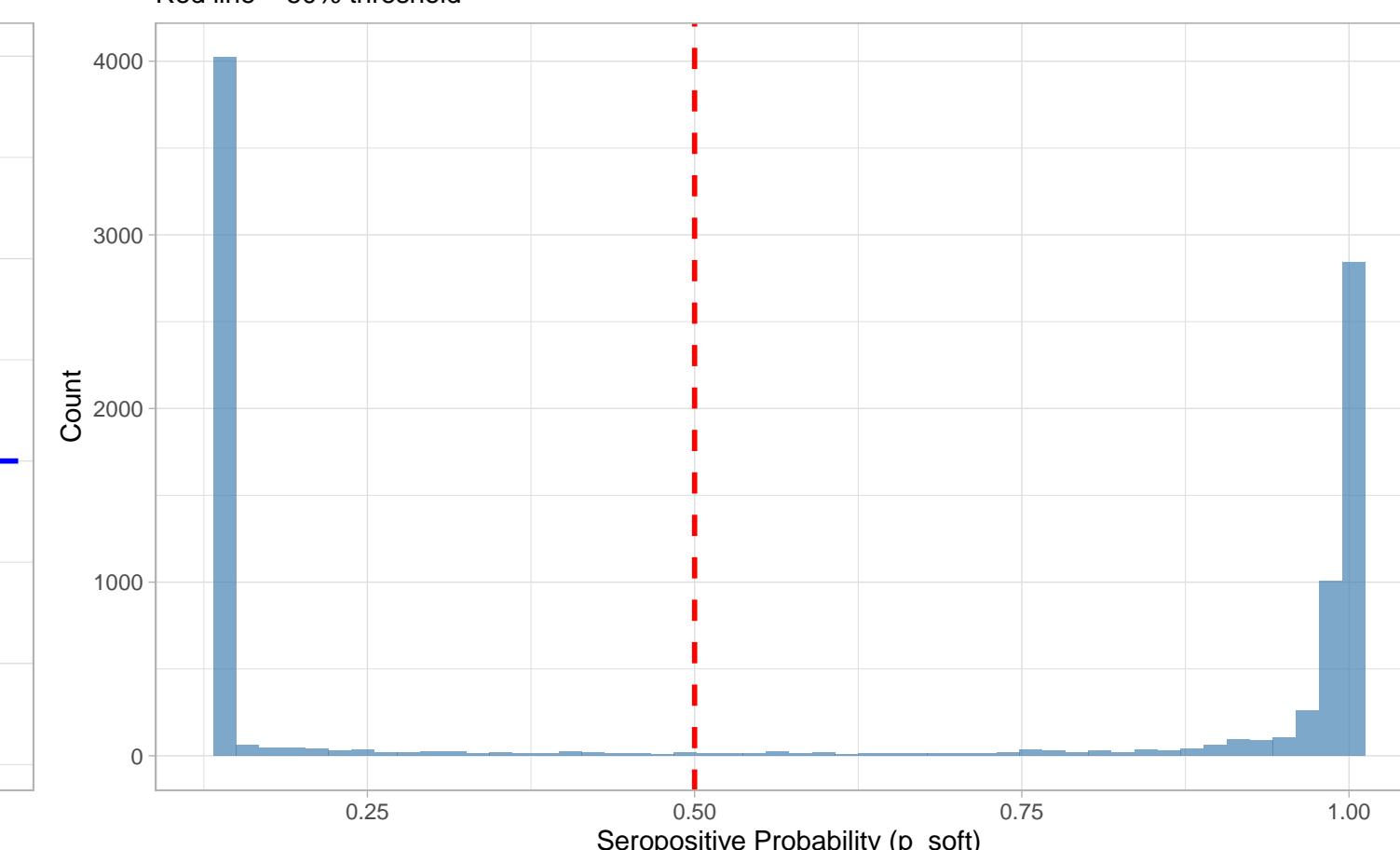
IgG Level vs. Seropositive Probability: cmv_pp28

Red line = BL threshold, Blue line = 50% probability



Distribution of Seropositive Probabilities: cmv_pp28

Red line = 50% threshold

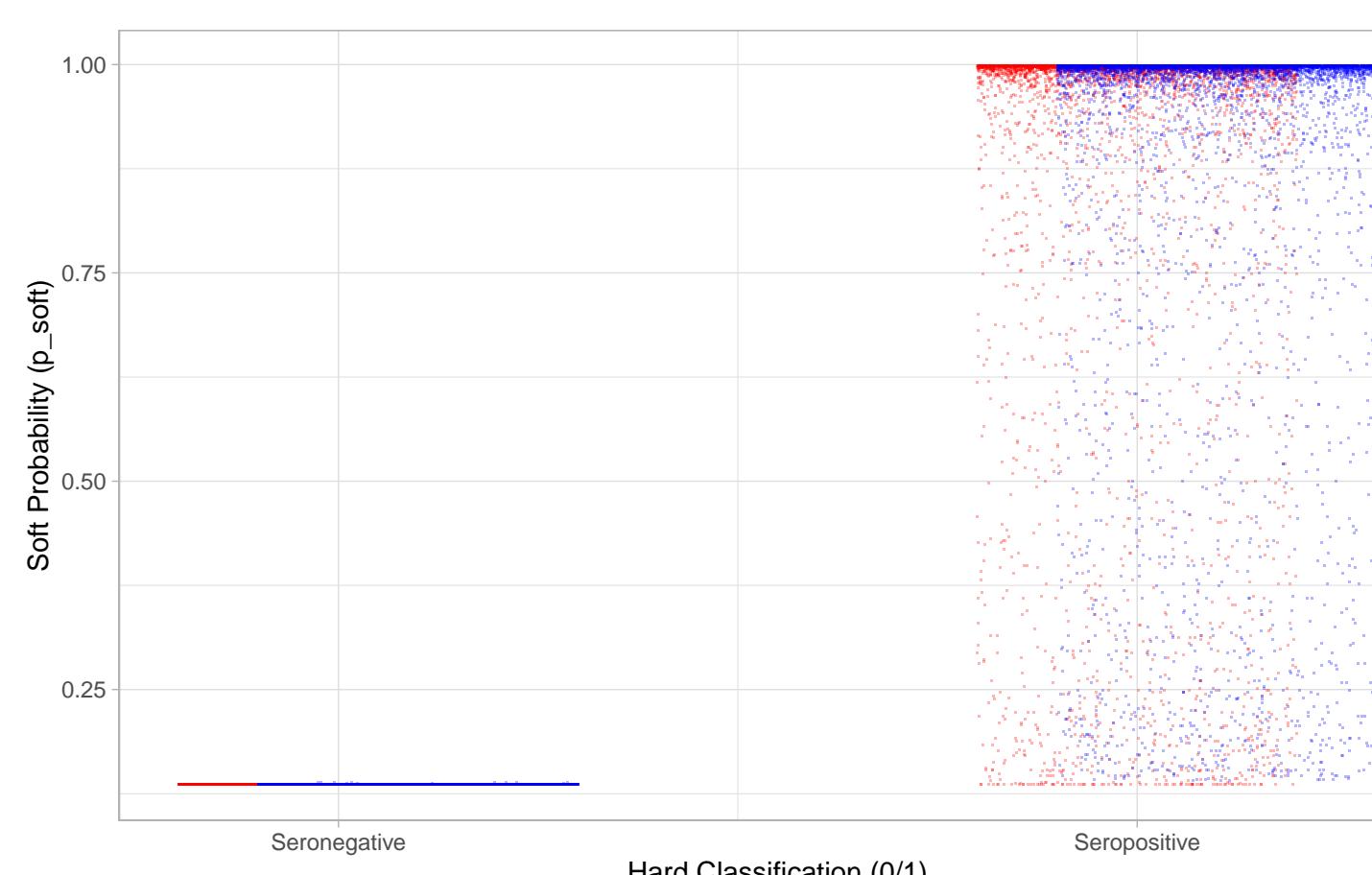


Classification

Concordant Negative
Concordant Positive
Discordant (BL+, Mix-)

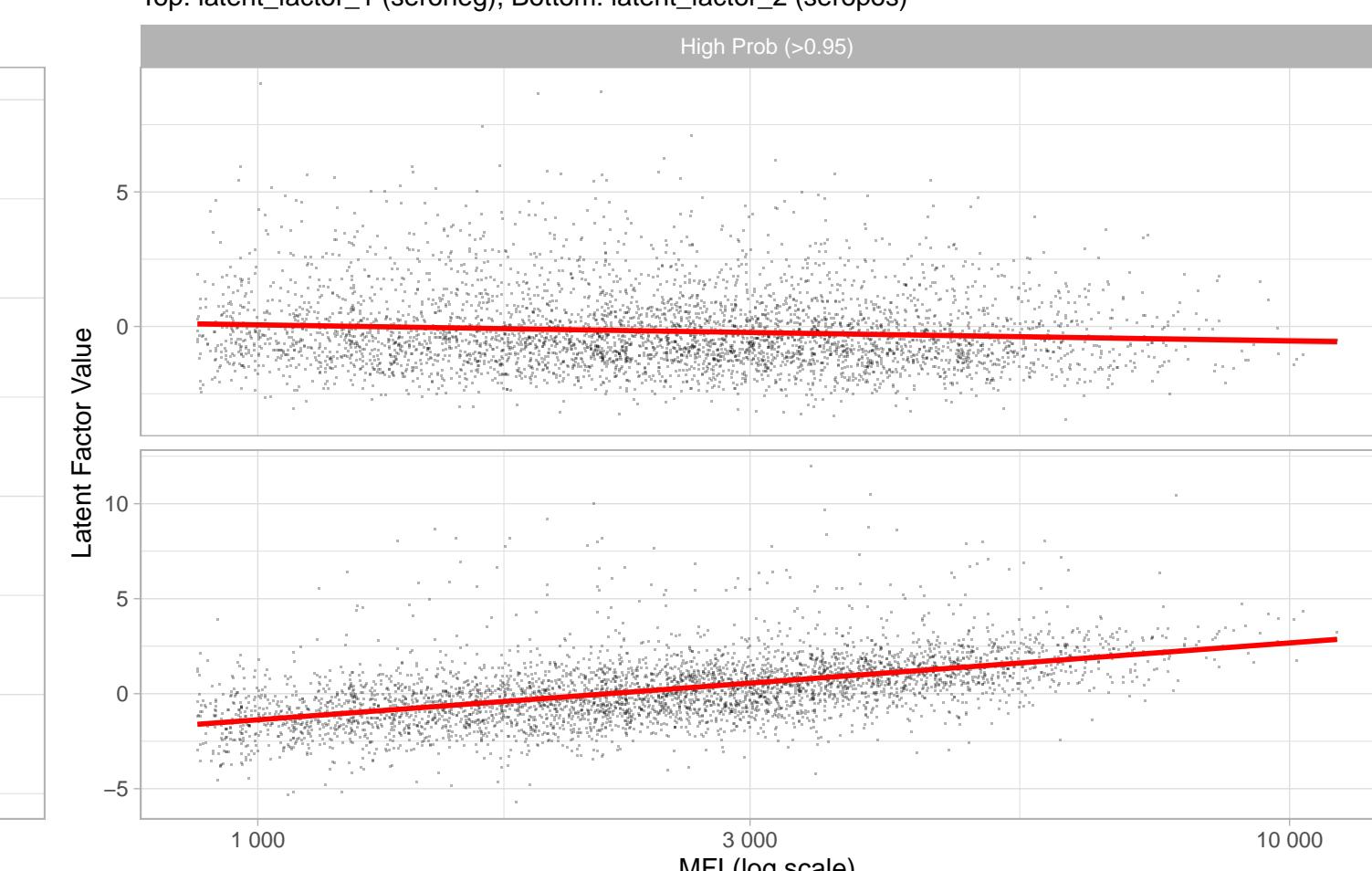
Hard Calls vs. Soft Probability: cmv_pp28

Comparing BL and Mixture-Model hard calls against p_soft



Latent Factor Components vs IgG Level: cmv_pp28

Top: latent_factor_1 (seroneg), Bottom: latent_factor_2 (seropos)

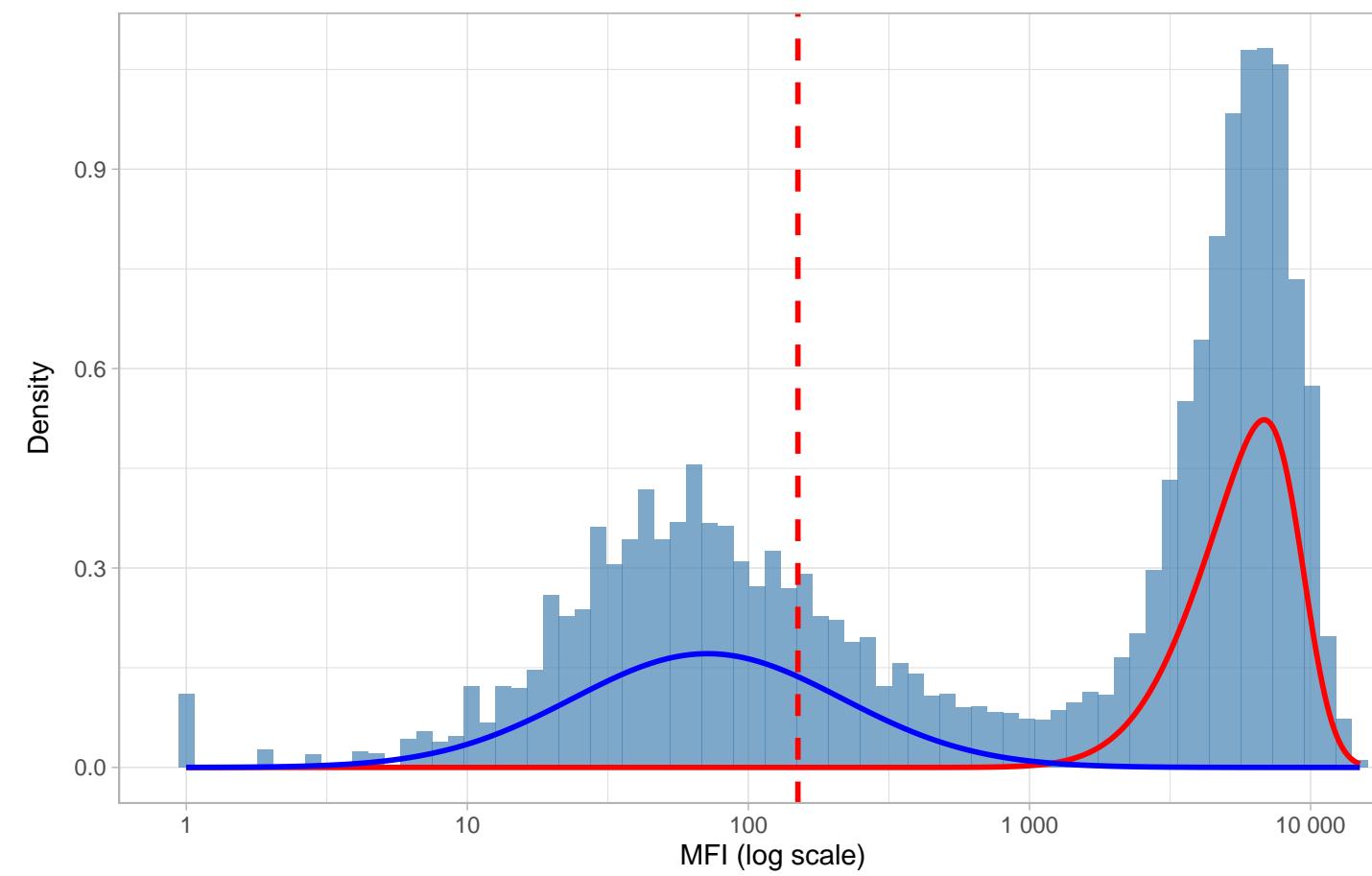


Comprehensive Diagnostics: cmv_pp52

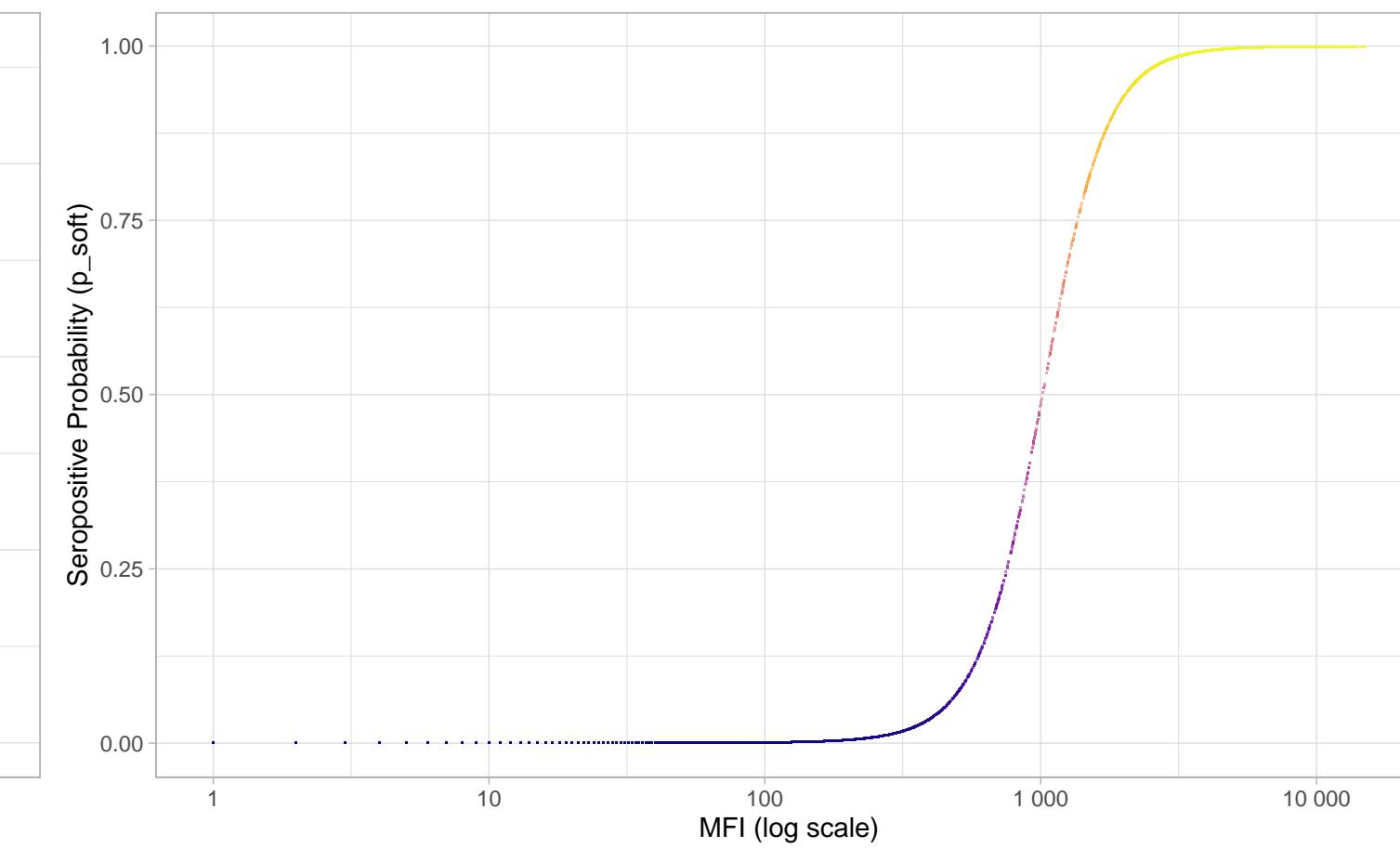
N=9424 | >0.95=4647 | <0.05=4141 | Ambig=636

MFI Distribution: cmv_pp52

BL Hard Threshold = 150

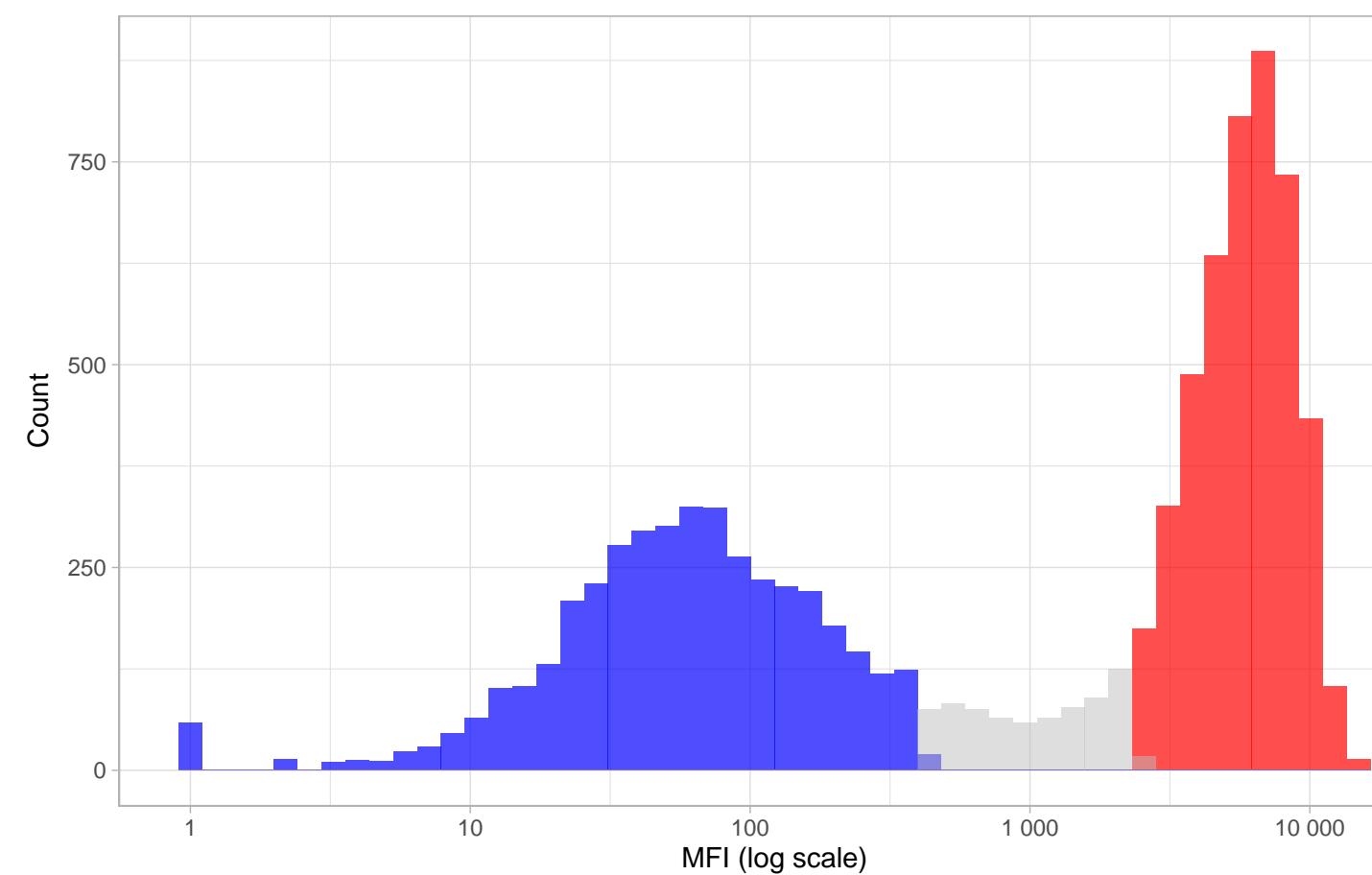


IgG vs Seropositive Probability: cmv_pp52



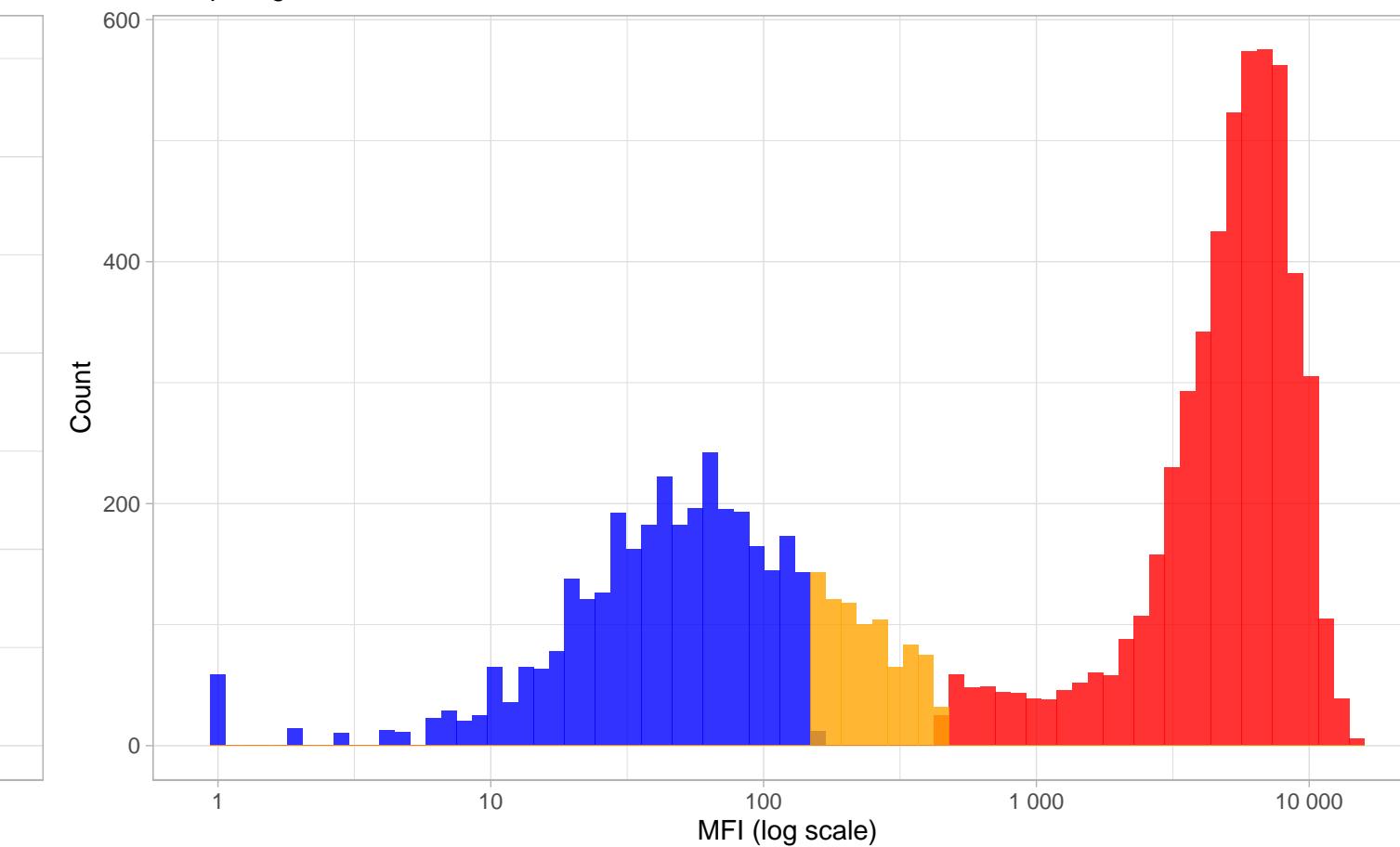
Distribution by Confidence: cmv_pp52

Prob threshold = 0.96



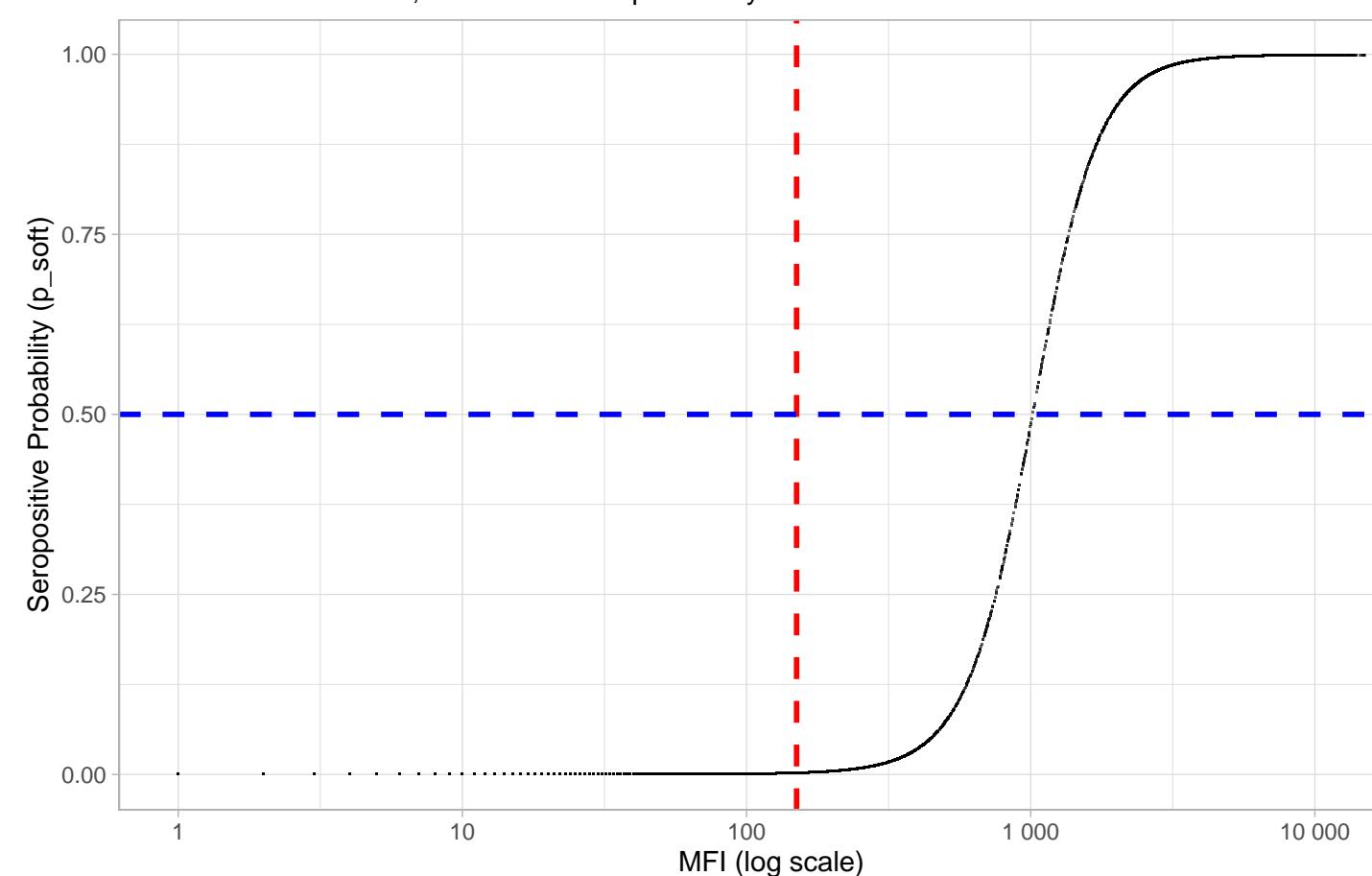
Phenotype Distribution by Classification: cmv_pp52

Comparing BL vs. Mixture-Model Hard Calls



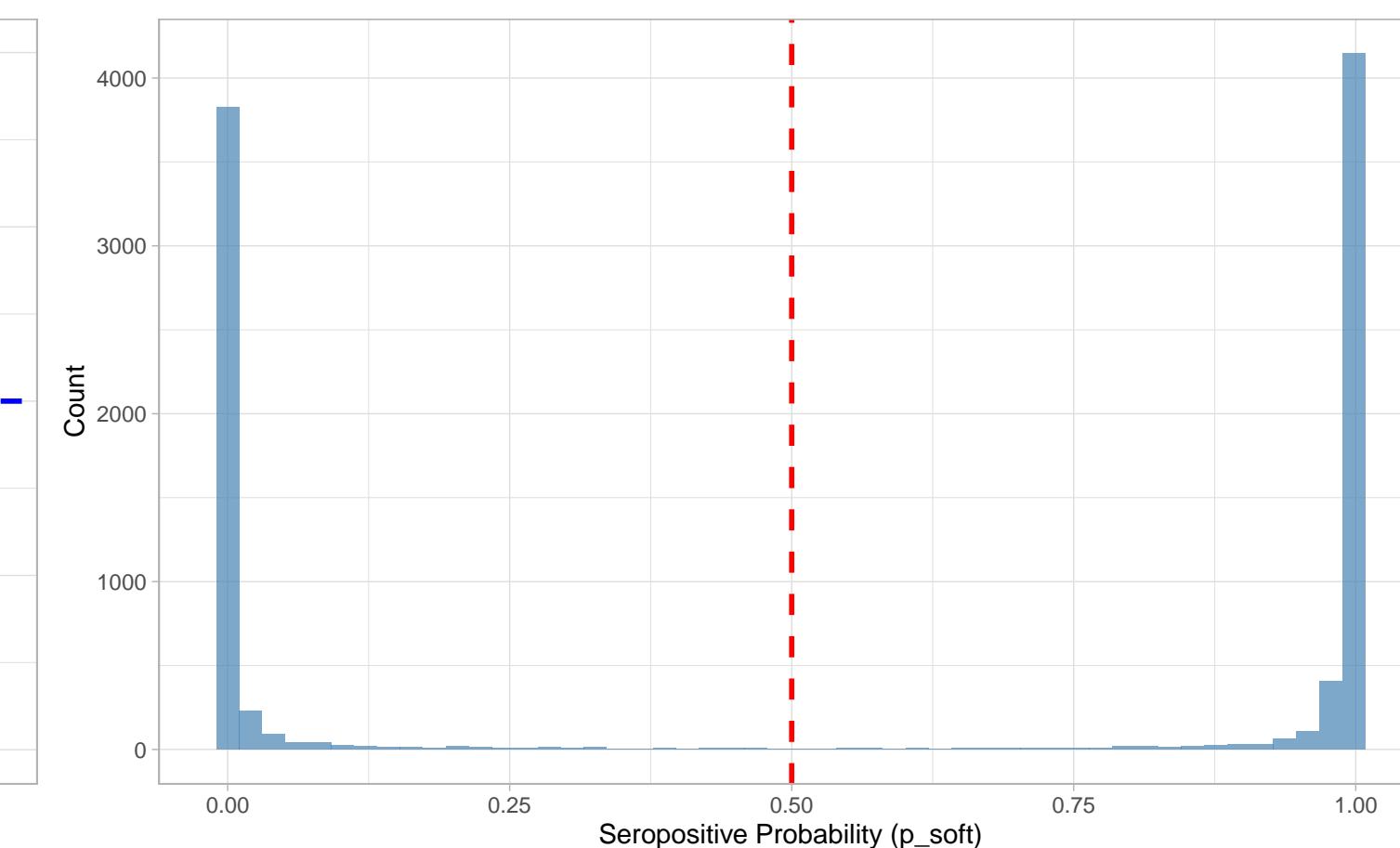
IgG Level vs. Seropositive Probability: cmv_pp52

Red line = BL threshold, Blue line = 50% probability



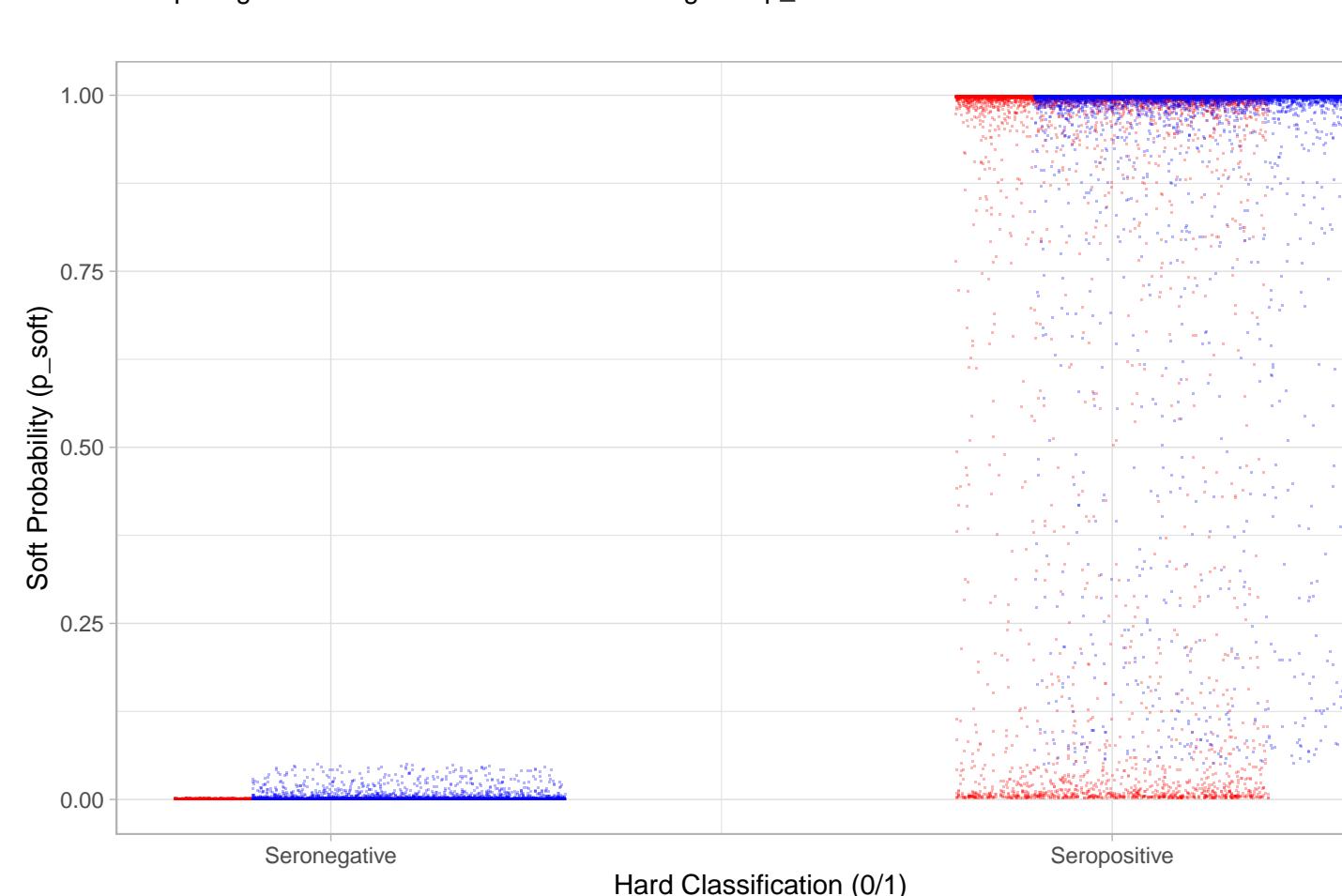
Distribution of Seropositive Probabilities: cmv_pp52

Red line = 50% threshold



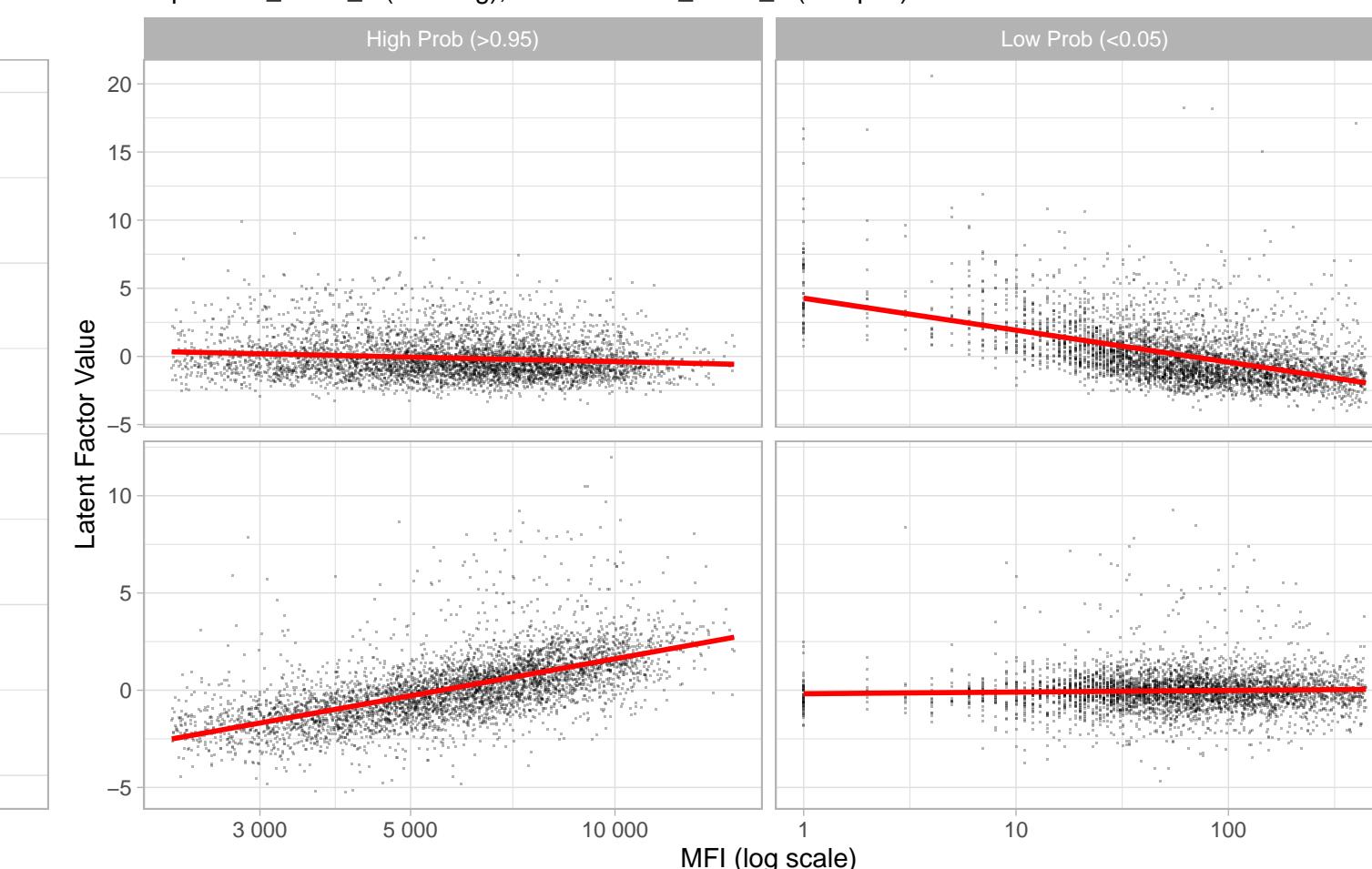
Hard Calls vs. Soft Probability: cmv_pp52

Comparing BL and Mixture-Model hard calls against p_soft



Latent Factor Components vs IgG Level: cmv_pp52

Top: latent_factor_1 (seroneg), Bottom: latent_factor_2 (seropos)

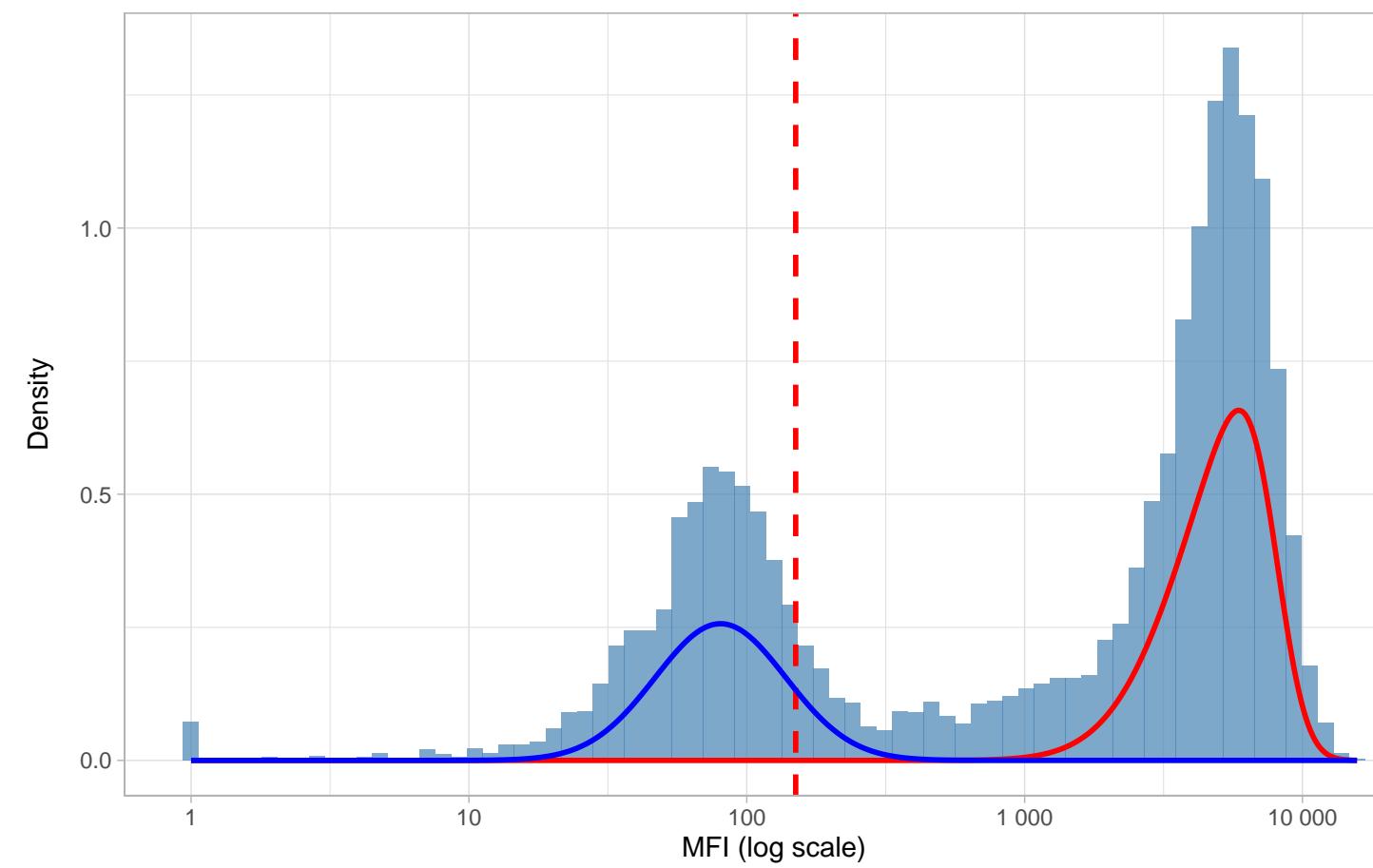


Comprehensive Diagnostics: hsv1

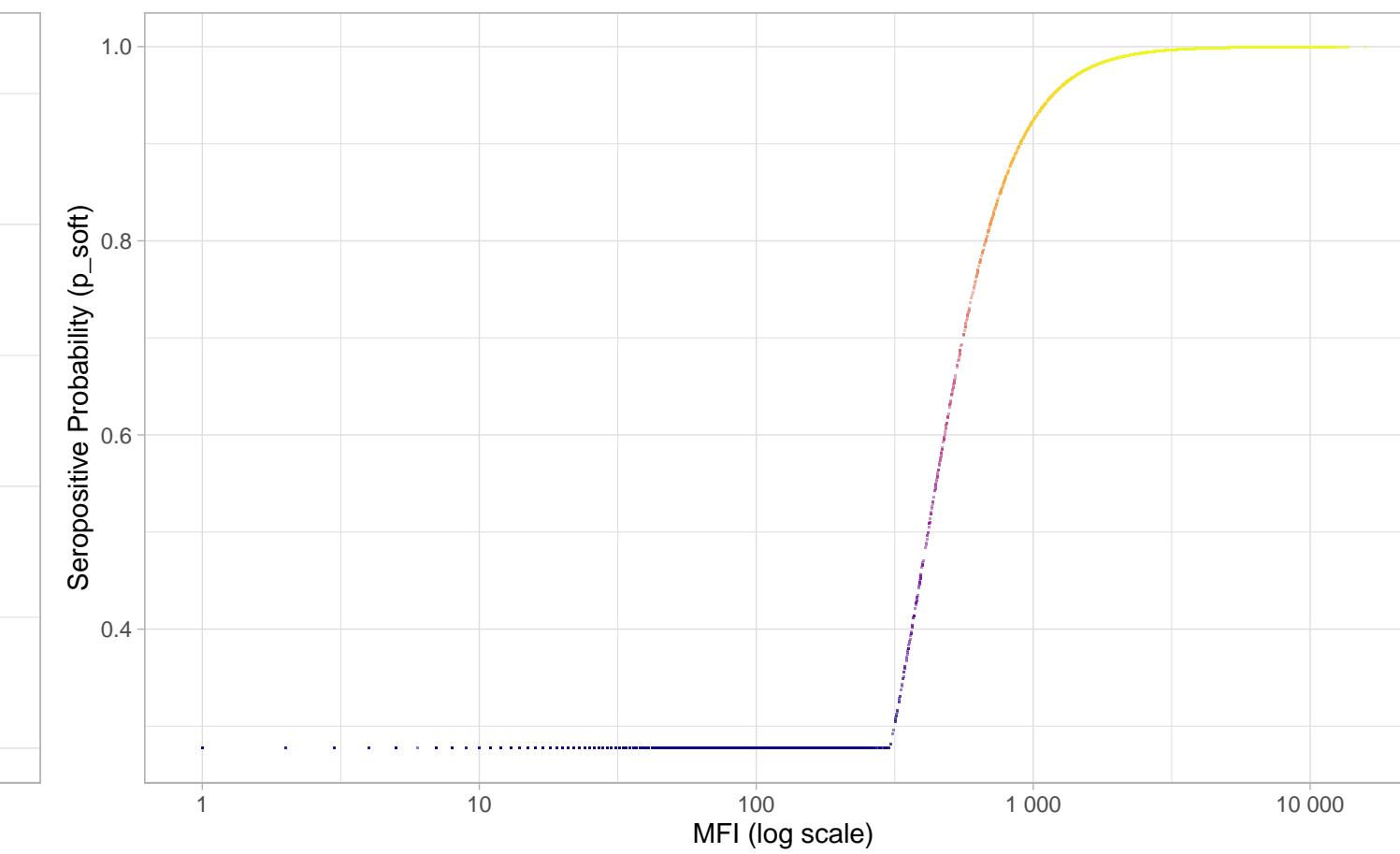
N=9424 | >0.95=5650 | <0.05=0 | Ambig=3774

MFI Distribution: hsv1

BL Hard Threshold = 150

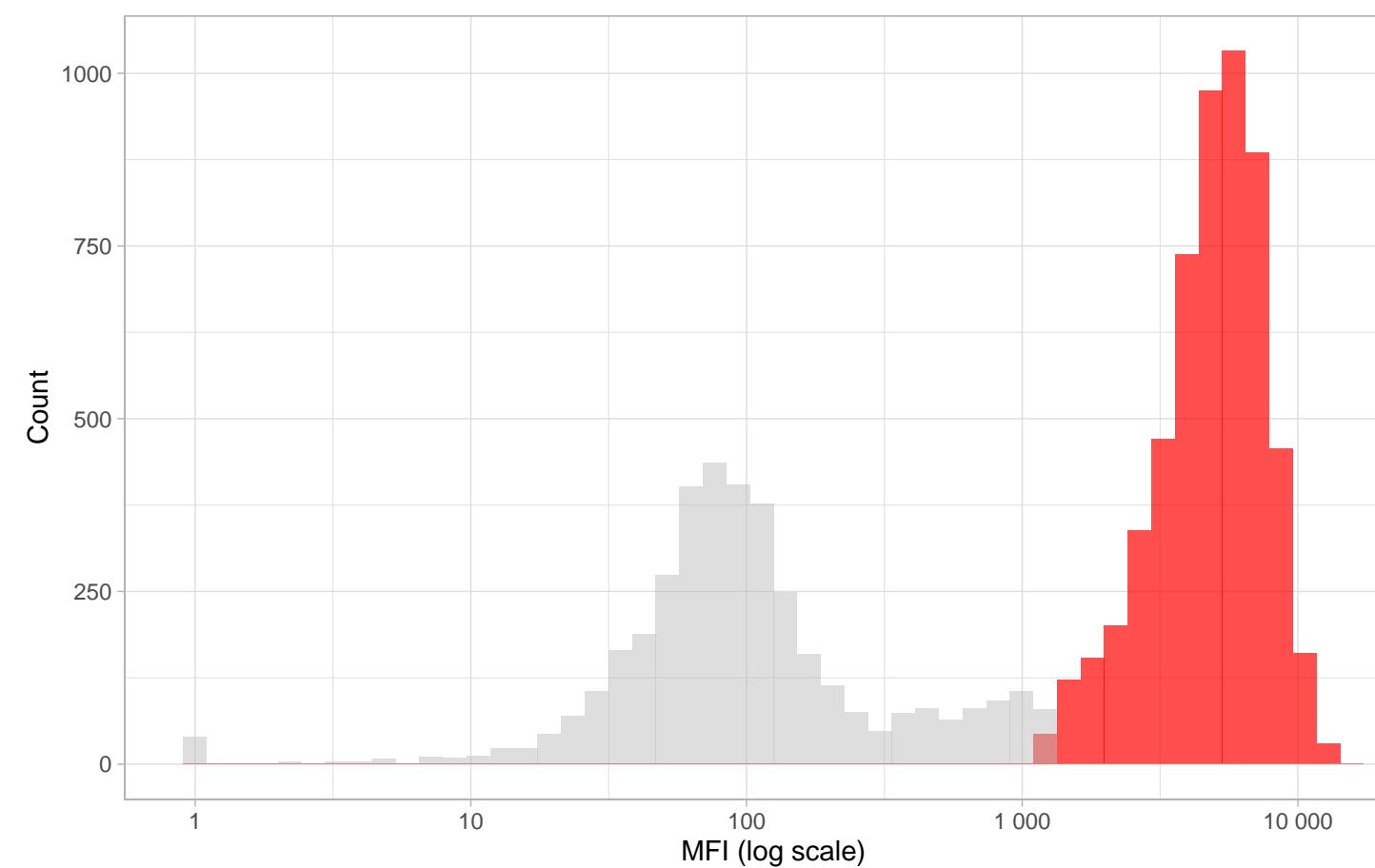


IgG vs Seropositive Probability: hsv1



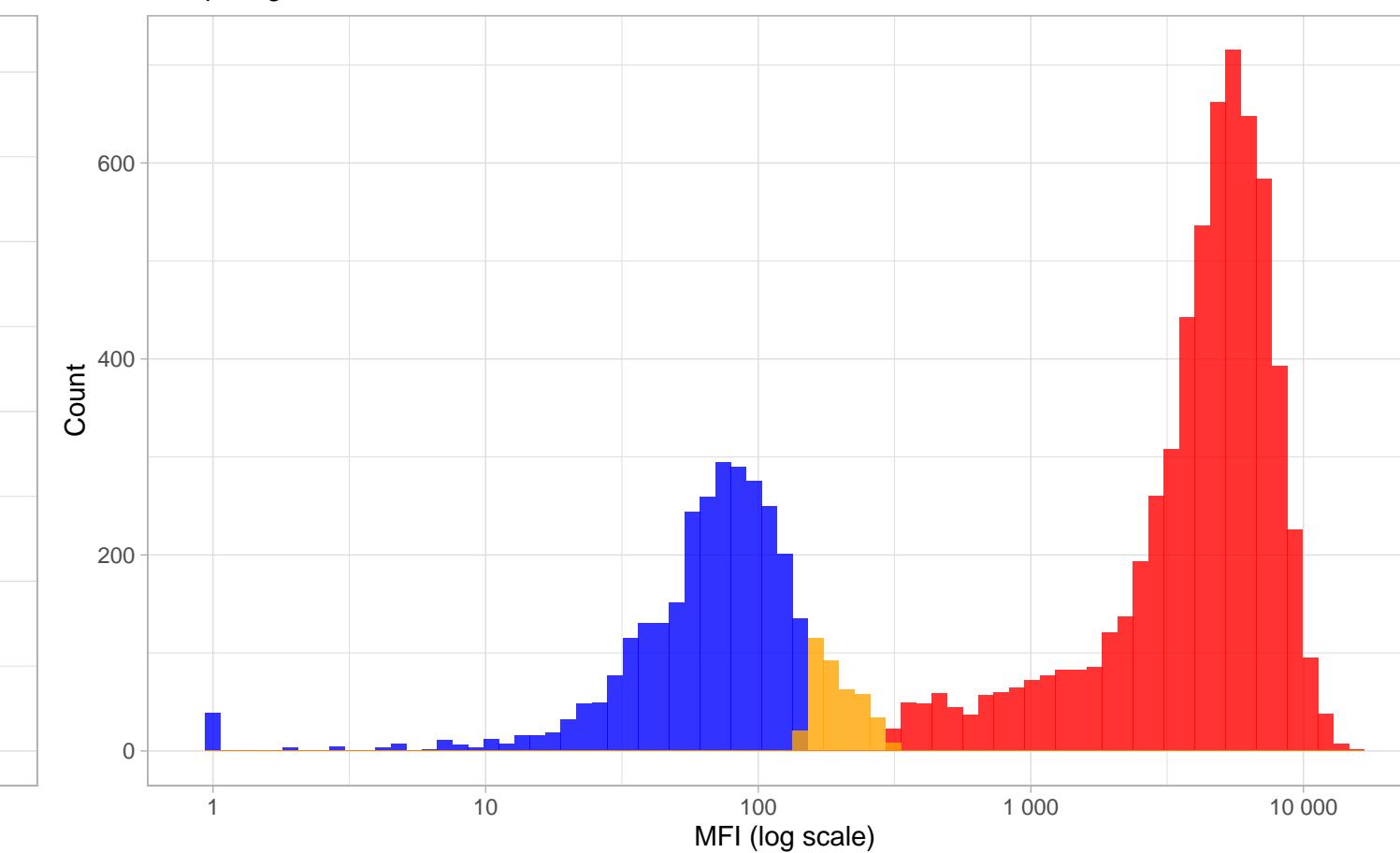
Distribution by Confidence: hsv1

Prob threshold = 0.96



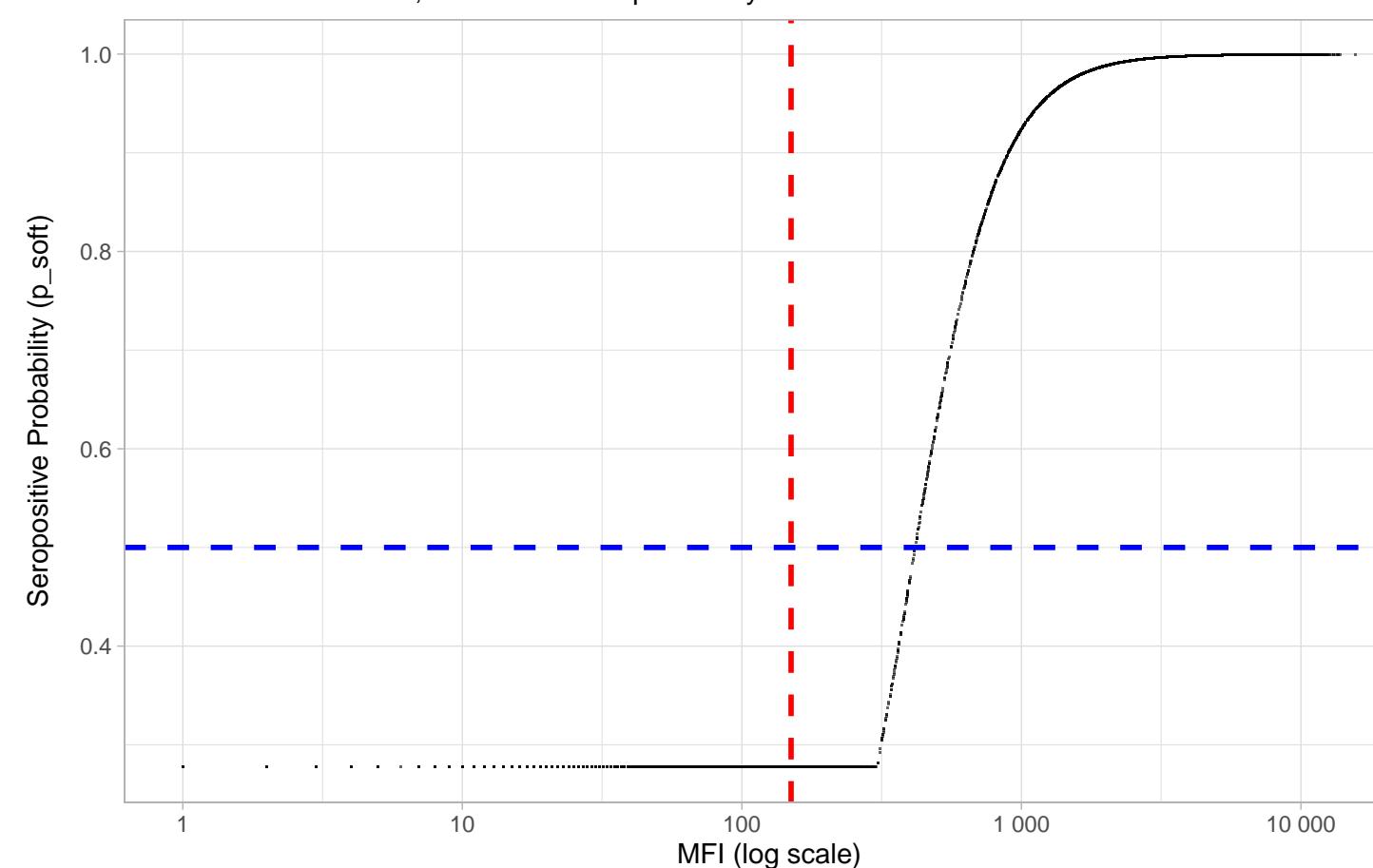
Phenotype Distribution by Classification: hsv1

Comparing BL vs. Mixture–Model Hard Calls



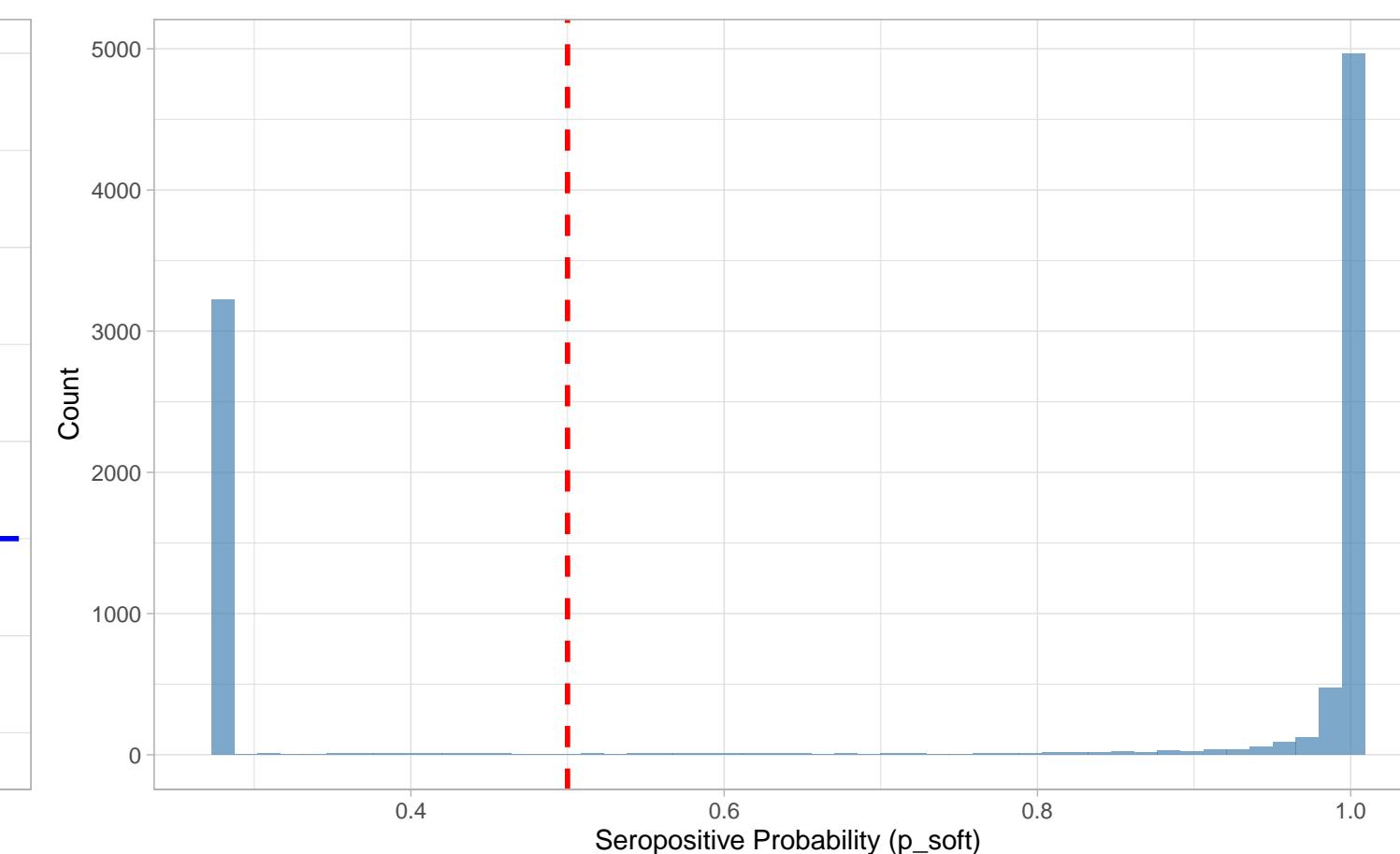
IgG Level vs. Seropositive Probability: hsv1

Red line = BL threshold, Blue line = 50% probability



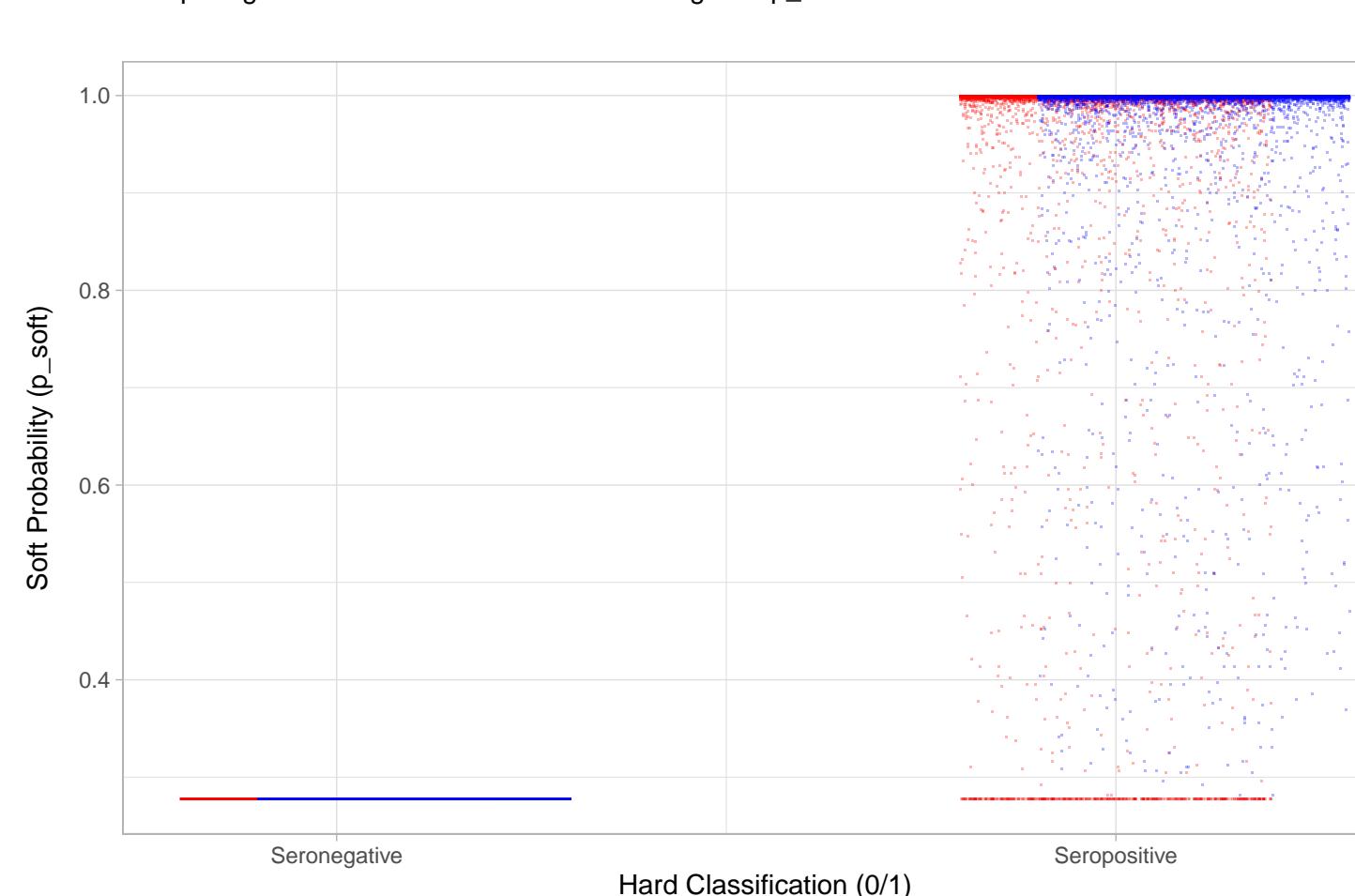
Distribution of Seropositive Probabilities: hsv1

Red line = 50% threshold



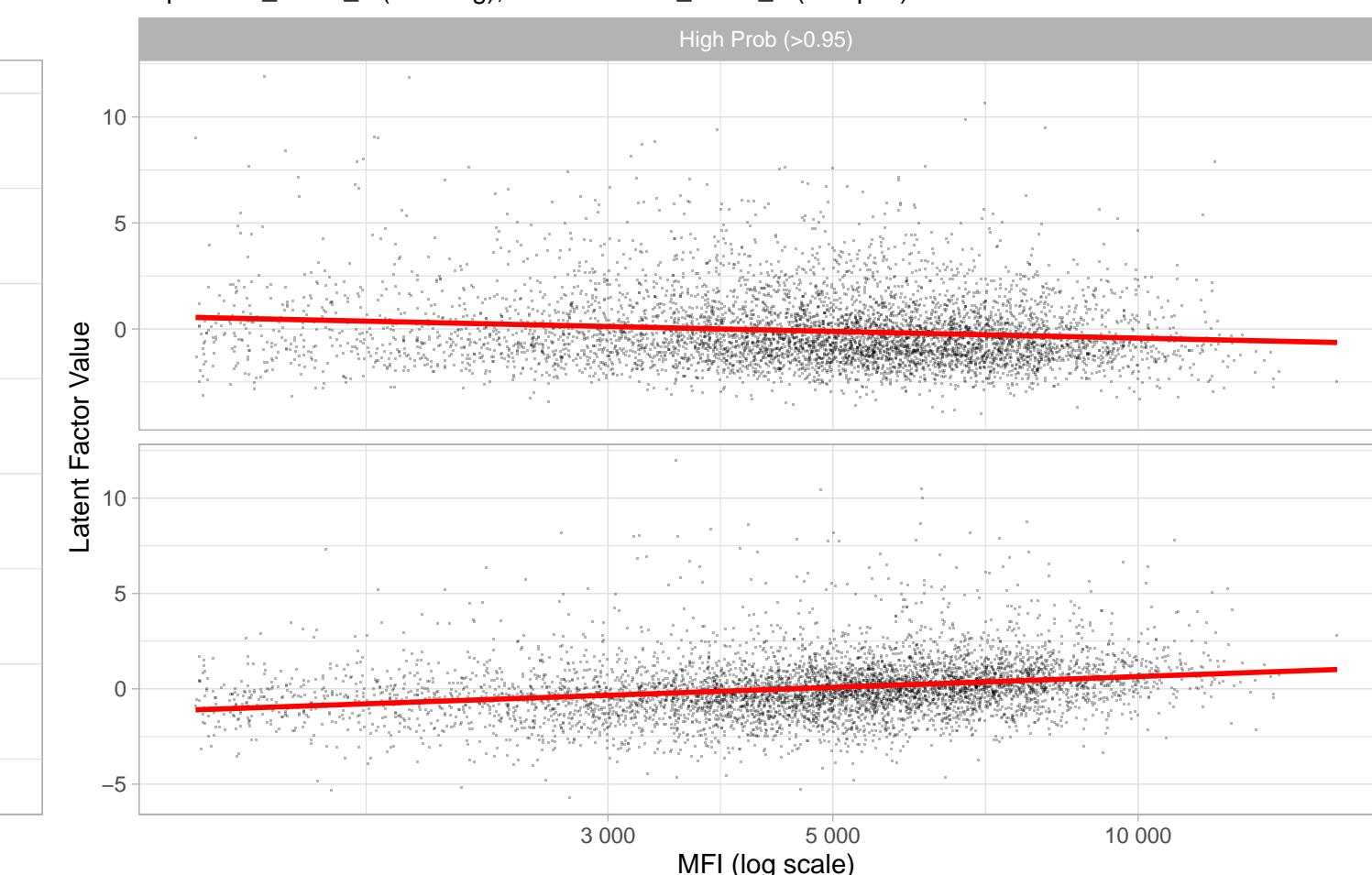
Hard Calls vs. Soft Probability: hsv1

Comparing BL and Mixture–Model hard calls against p_{soft}



Latent Factor Components vs IgG Level: hsv1

Top: latent_factor_1 (seroneg), Bottom: latent_factor_2 (seropos)

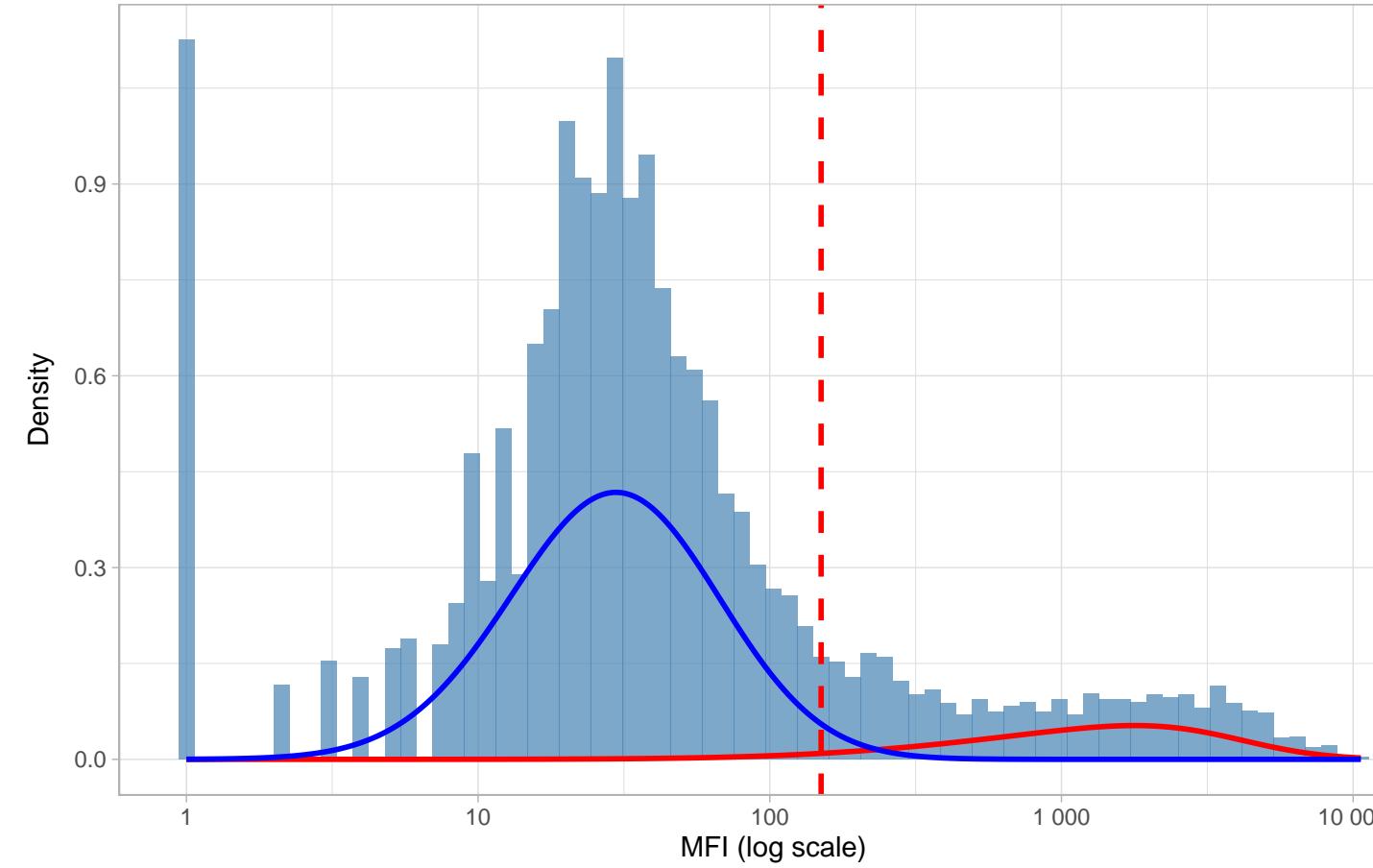


Comprehensive Diagnostics: hsv2

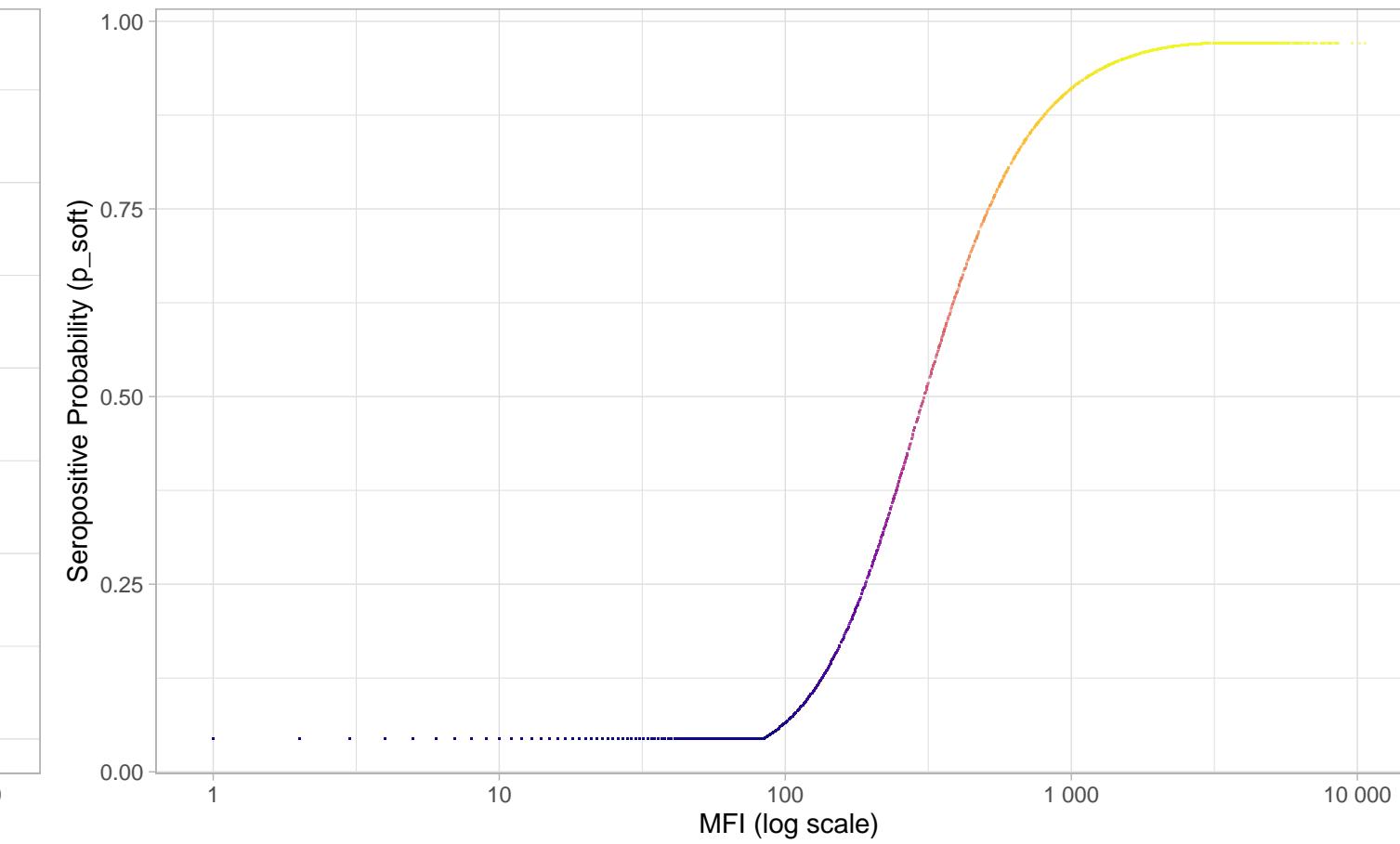
N=9424 | >0.95=528 | <0.05=7378 | Ambig=1518

MFI Distribution: hsv2

BL Hard Threshold = 150

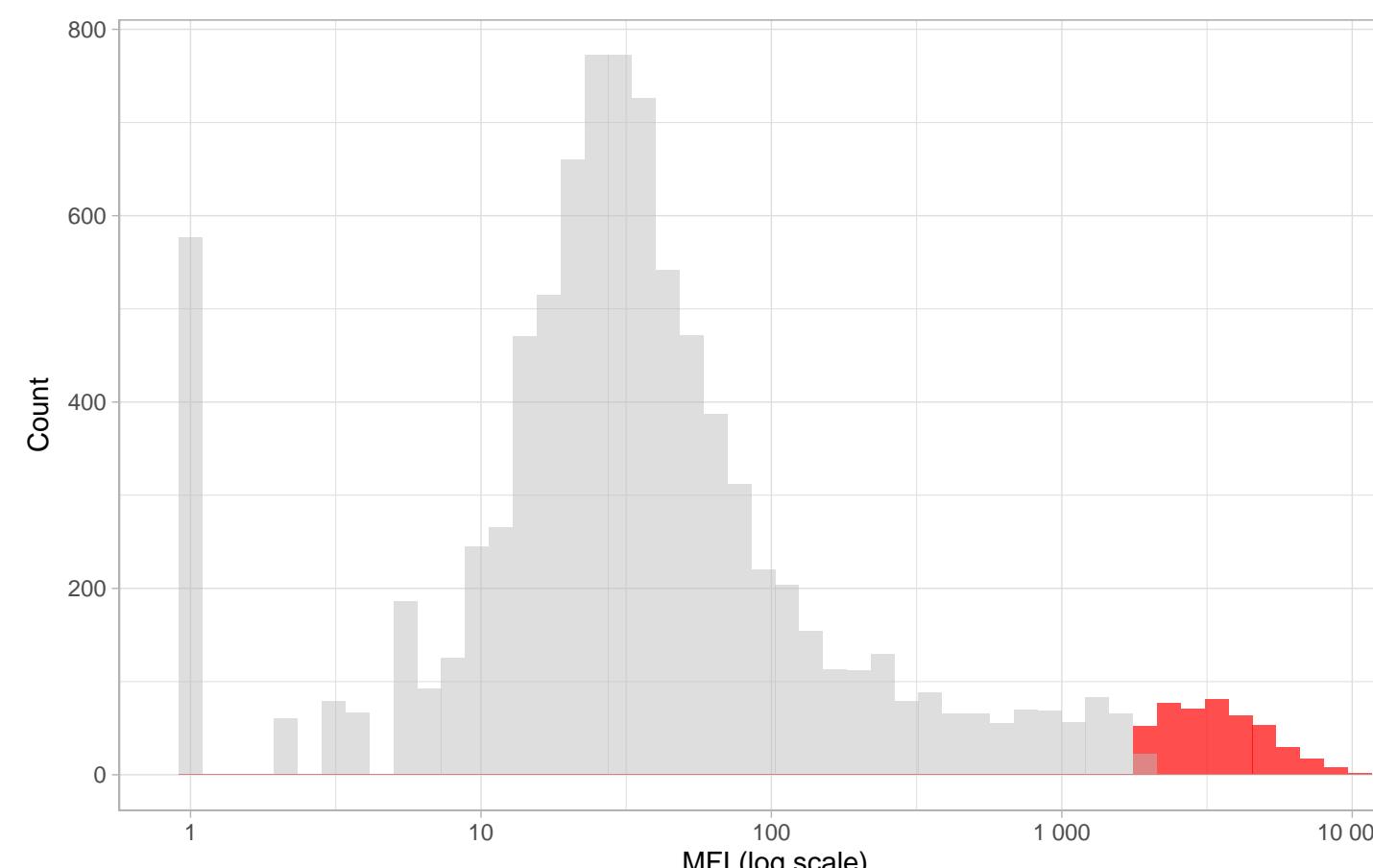


IgG vs Seropositive Probability: hsv2



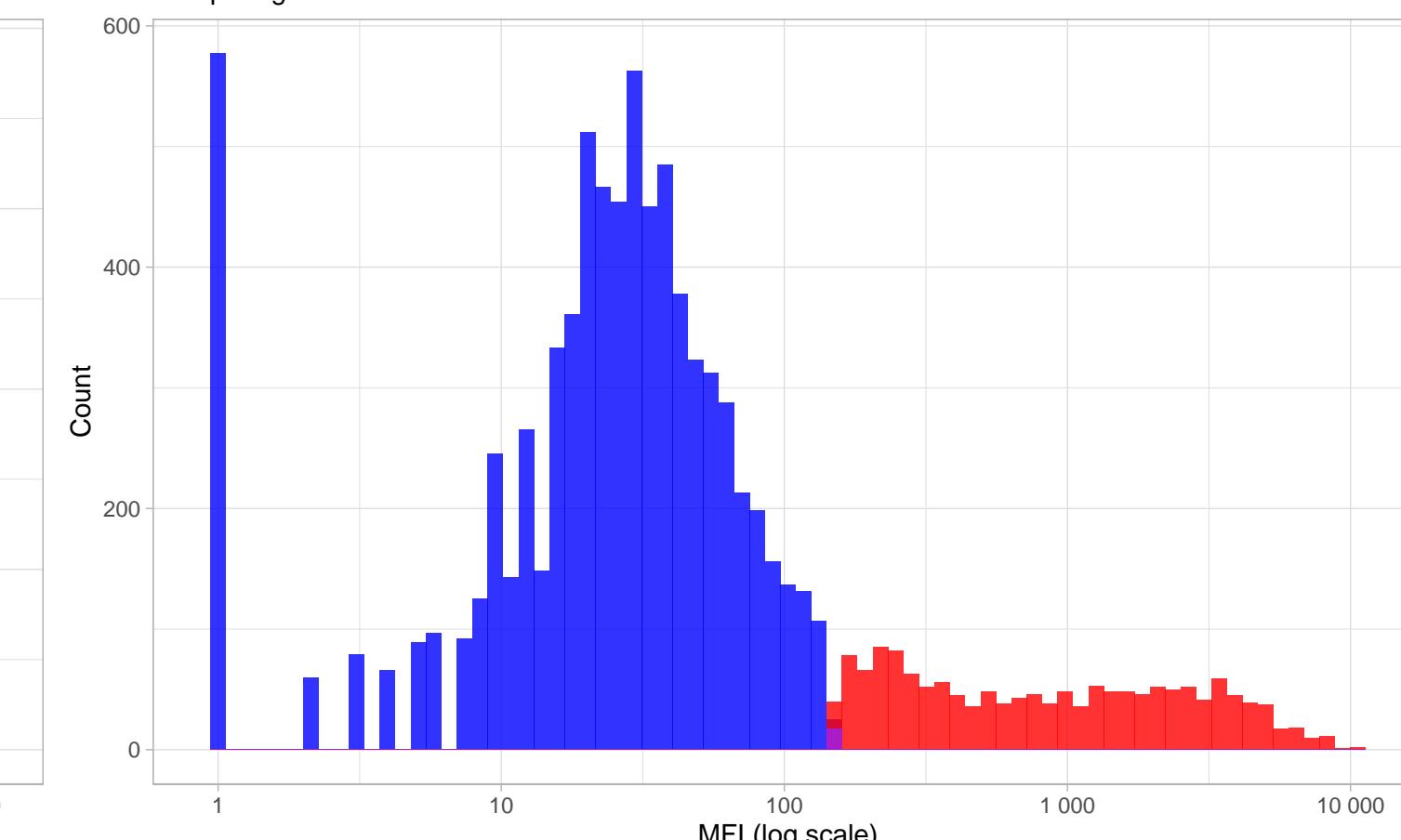
Distribution by Confidence: hsv2

Prob threshold = 0.96



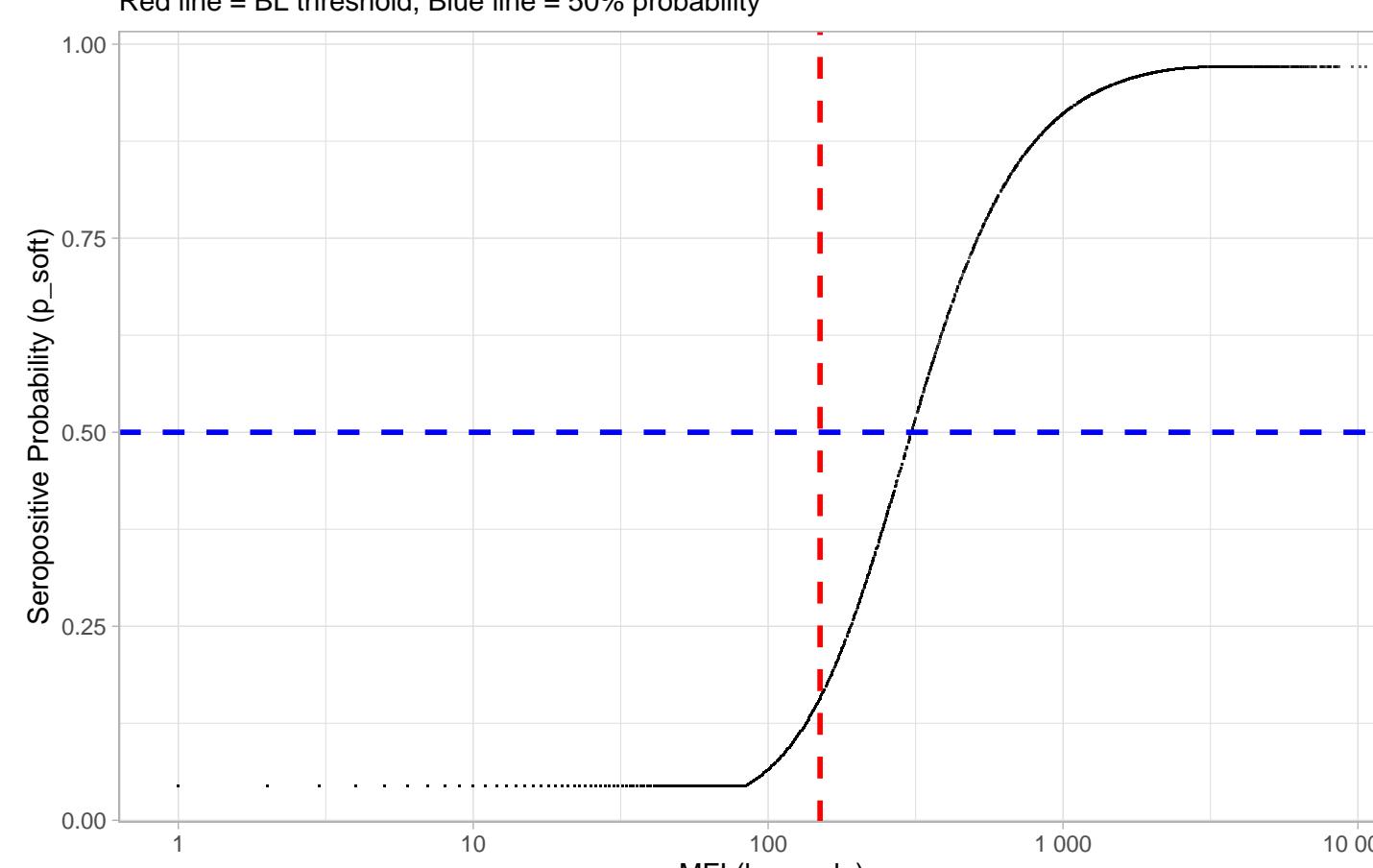
Phenotype Distribution by Classification: hsv2

Comparing BL vs. Mixture-Model Hard Calls



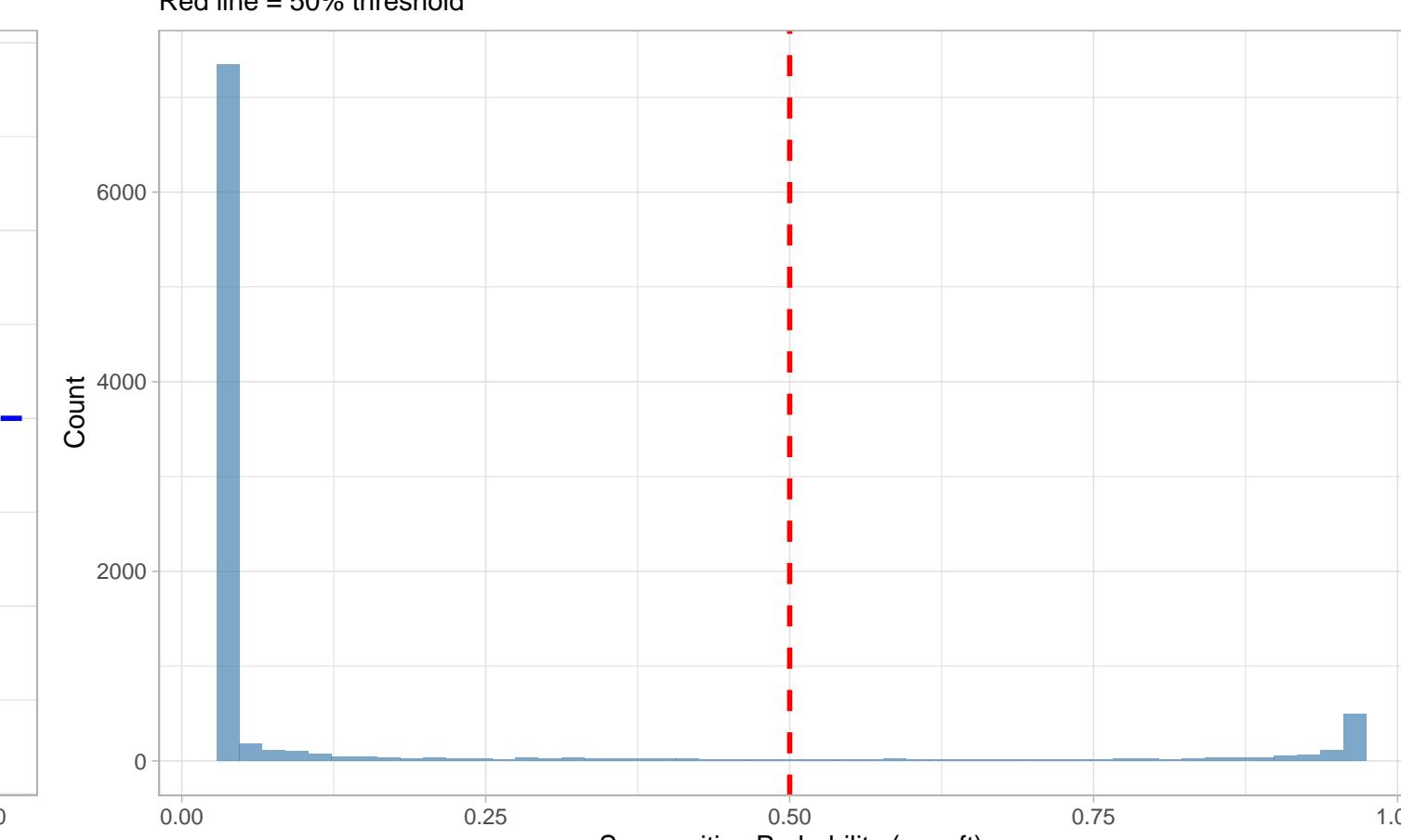
IgG Level vs. Seropositive Probability: hsv2

Red line = BL threshold, Blue line = 50% probability



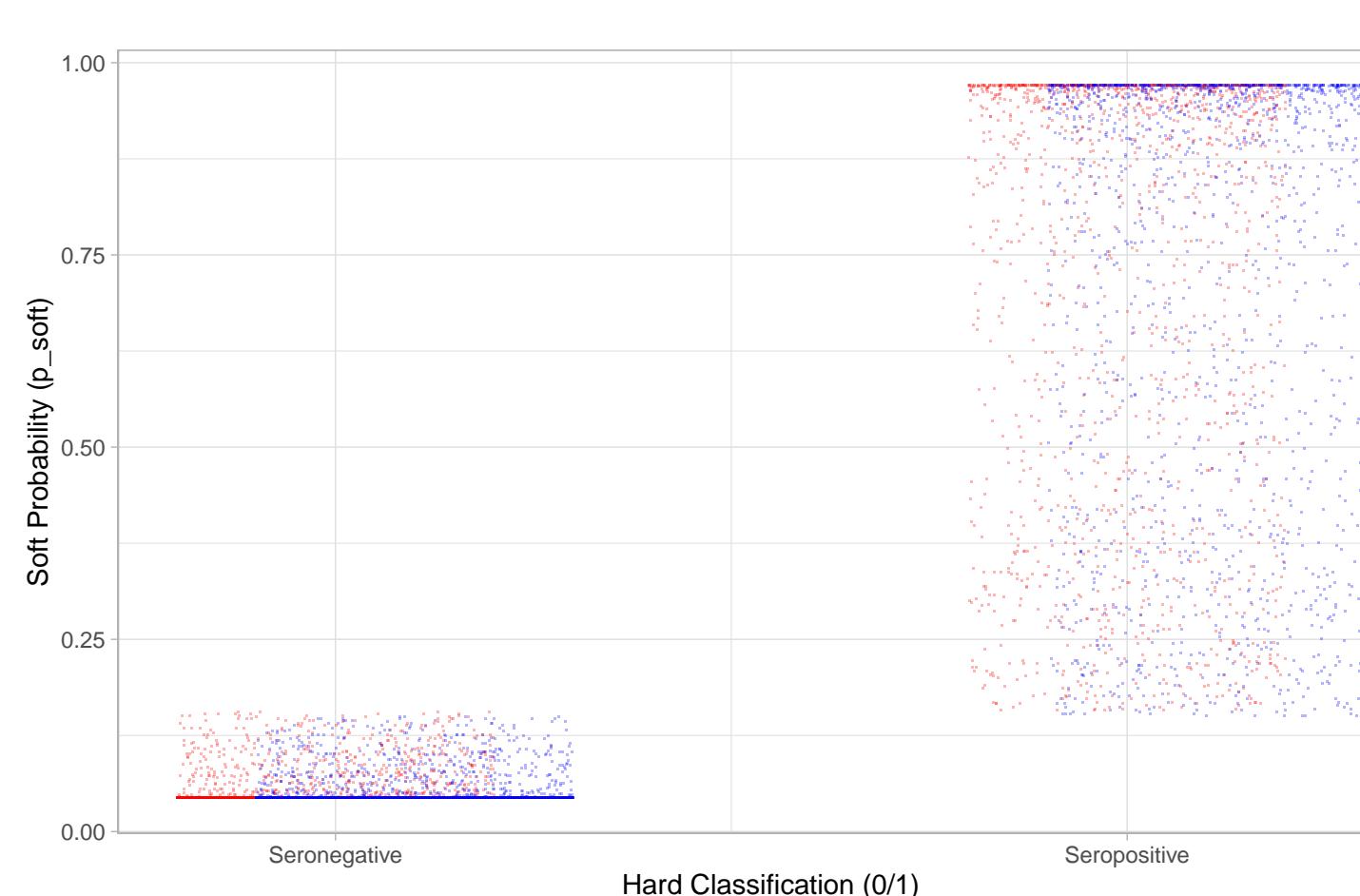
Distribution of Seropositive Probabilities: hsv2

Red line = 50% threshold



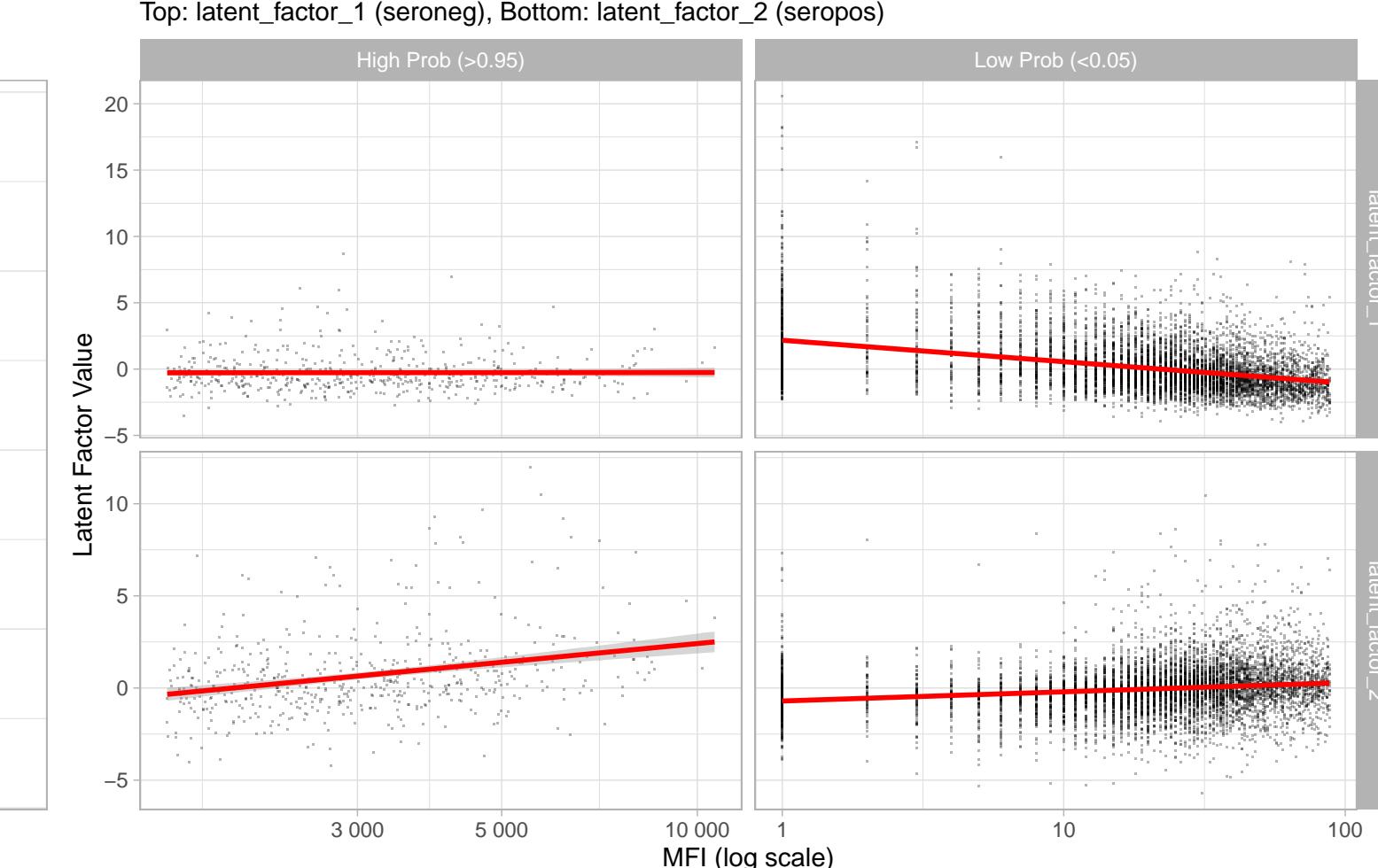
Hard Calls vs. Soft Probability: hsv2

Comparing BL and Mixture-Model hard calls against p_{soft}



Latent Factor Components vs IgG Level: hsv2

Top: latent_factor_1 (seroneg), Bottom: latent_factor_2 (seropos)

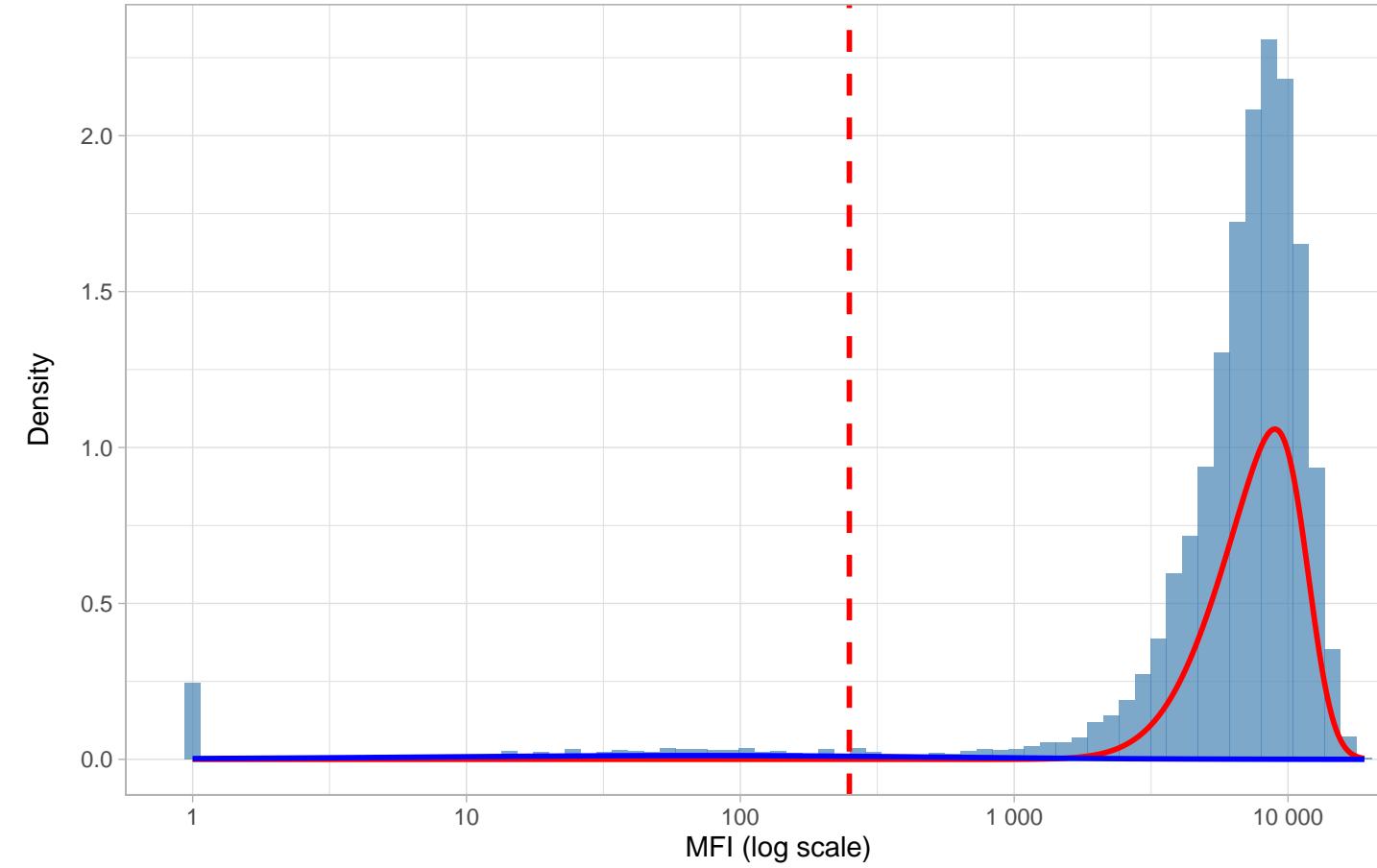


Comprehensive Diagnostics: ebv_vca

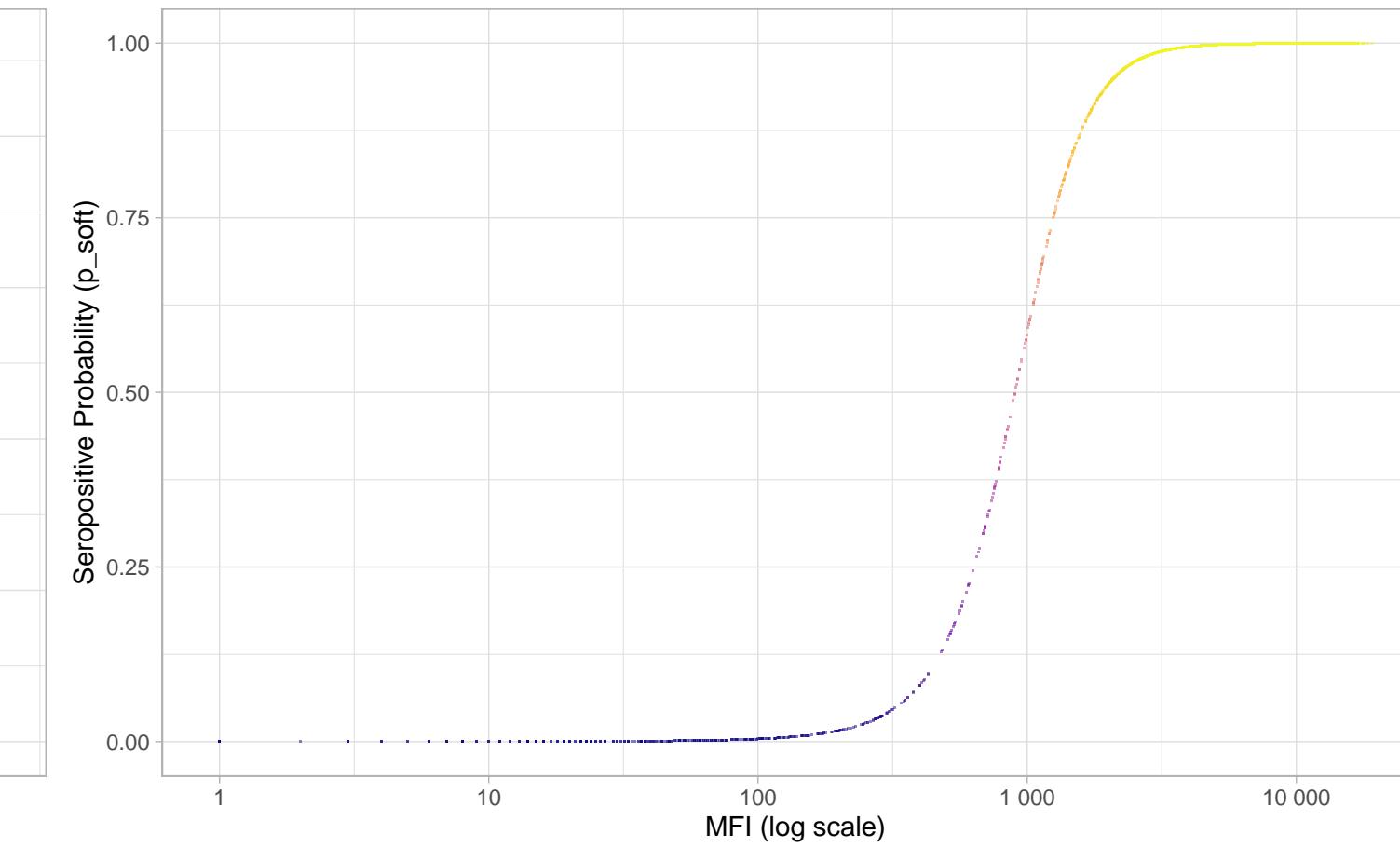
N=9424 | >0.95=8641 | <0.05=502 | Ambig=281

MFI Distribution: ebv_vca

BL Hard Threshold = 250

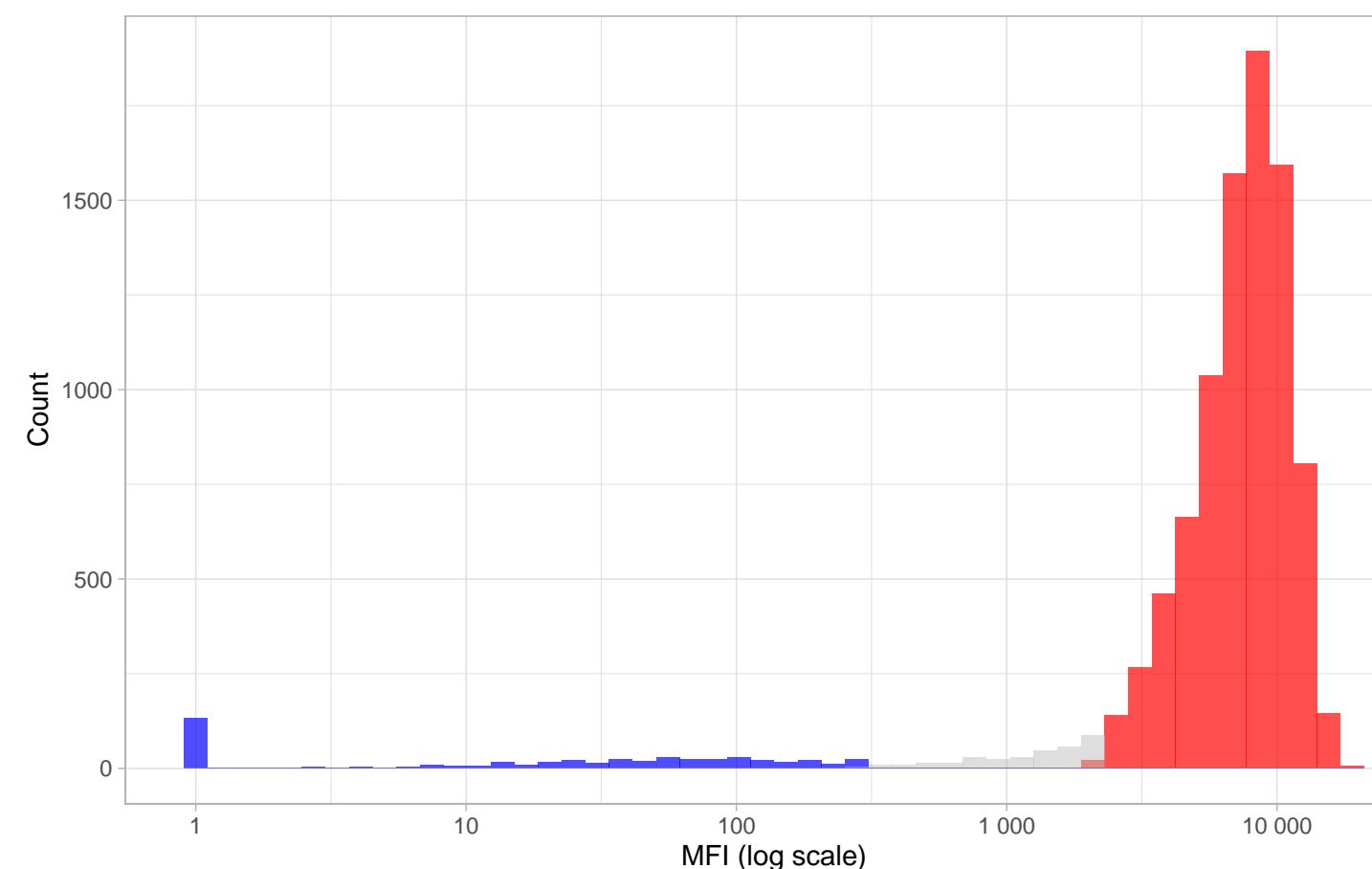


IgG vs Seropositive Probability: ebv_vca



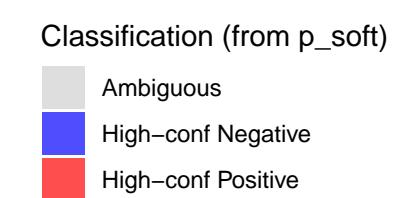
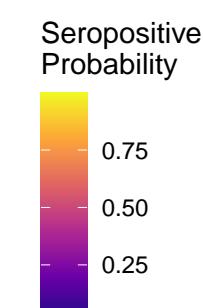
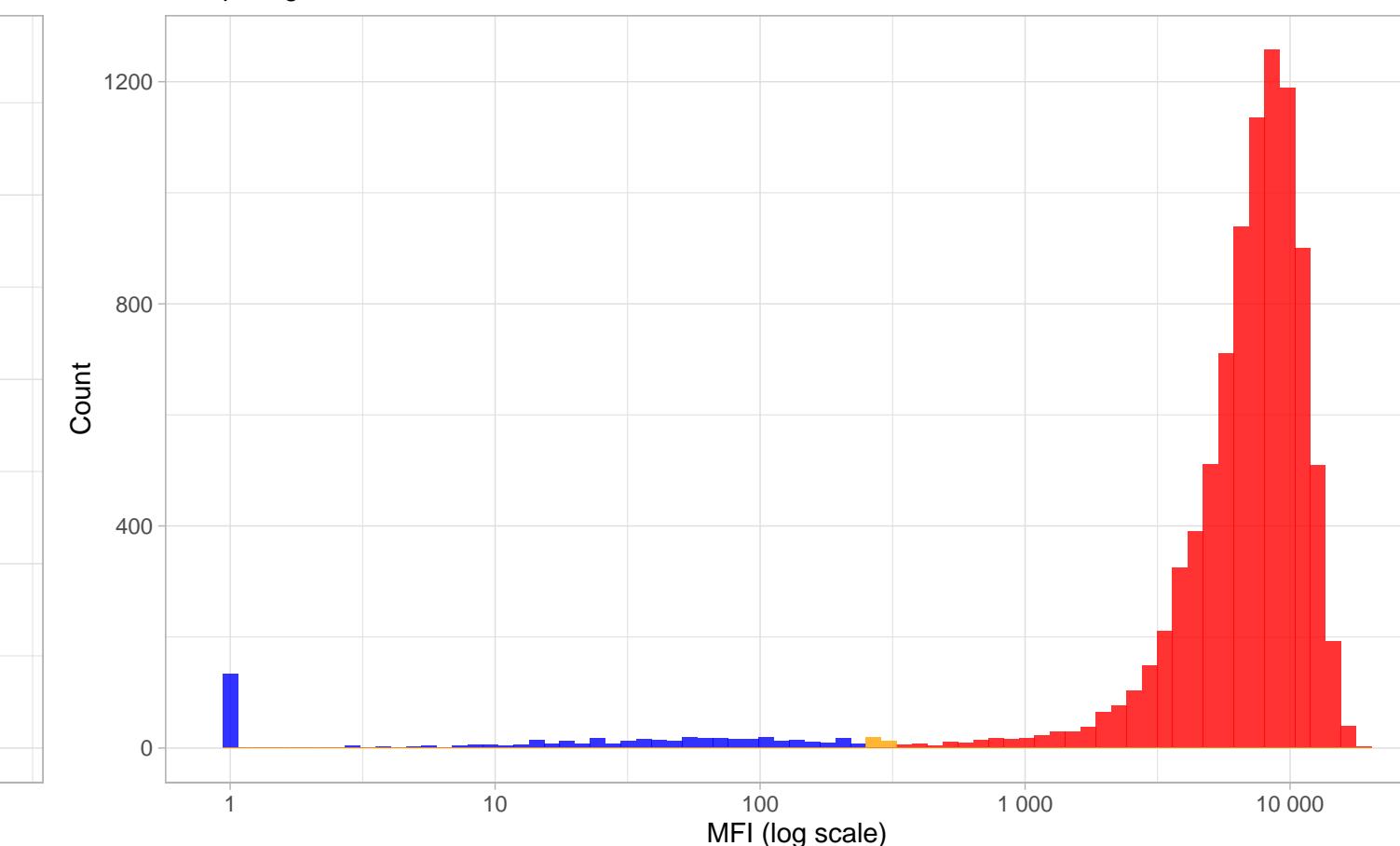
Distribution by Confidence: ebv_vca

Prob threshold = 0.96

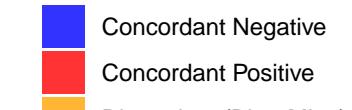


Phenotype Distribution by Classification: ebv_vca

Comparing BL vs. Mixture-Model Hard Calls



Classification

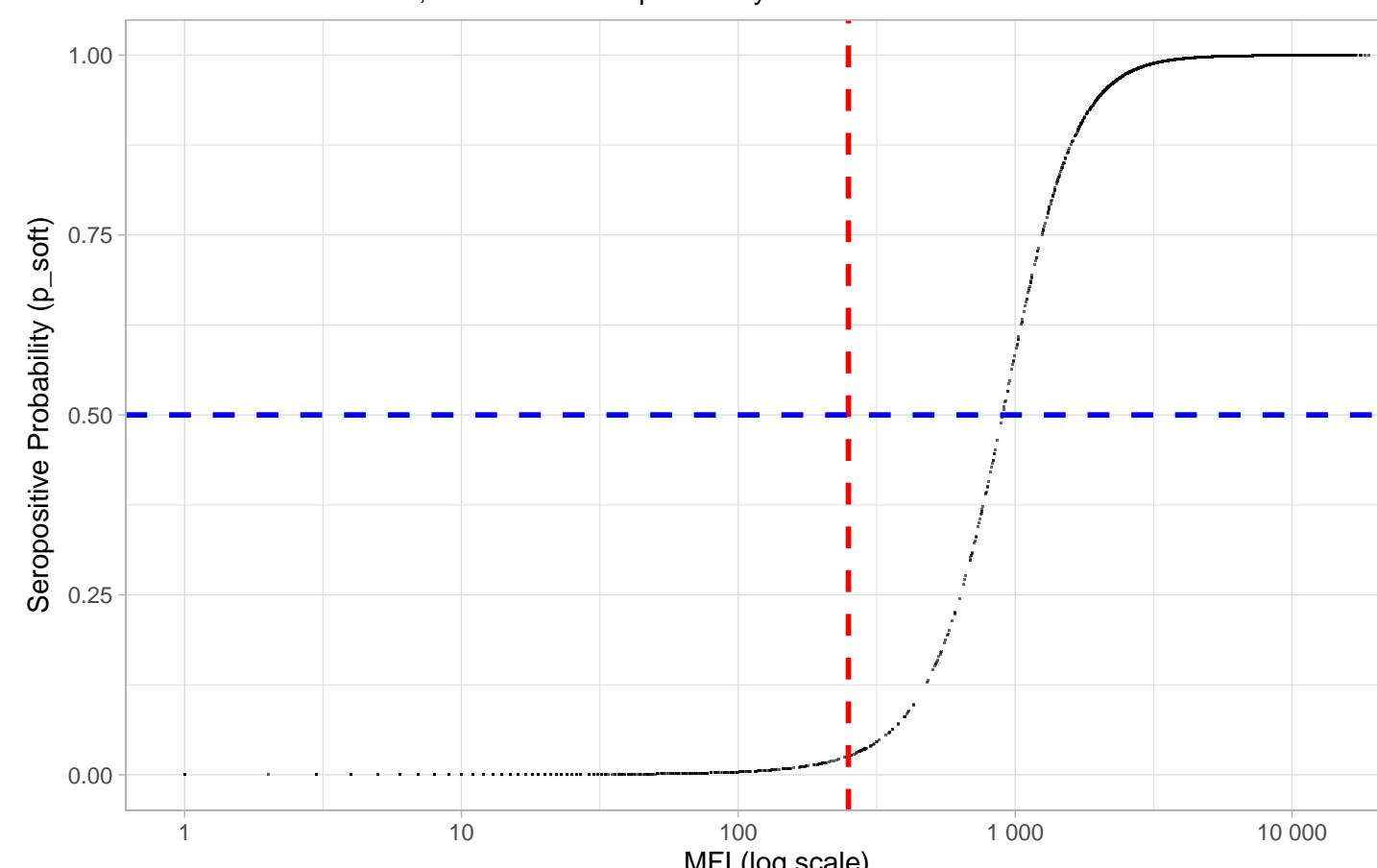


Hard Call Type



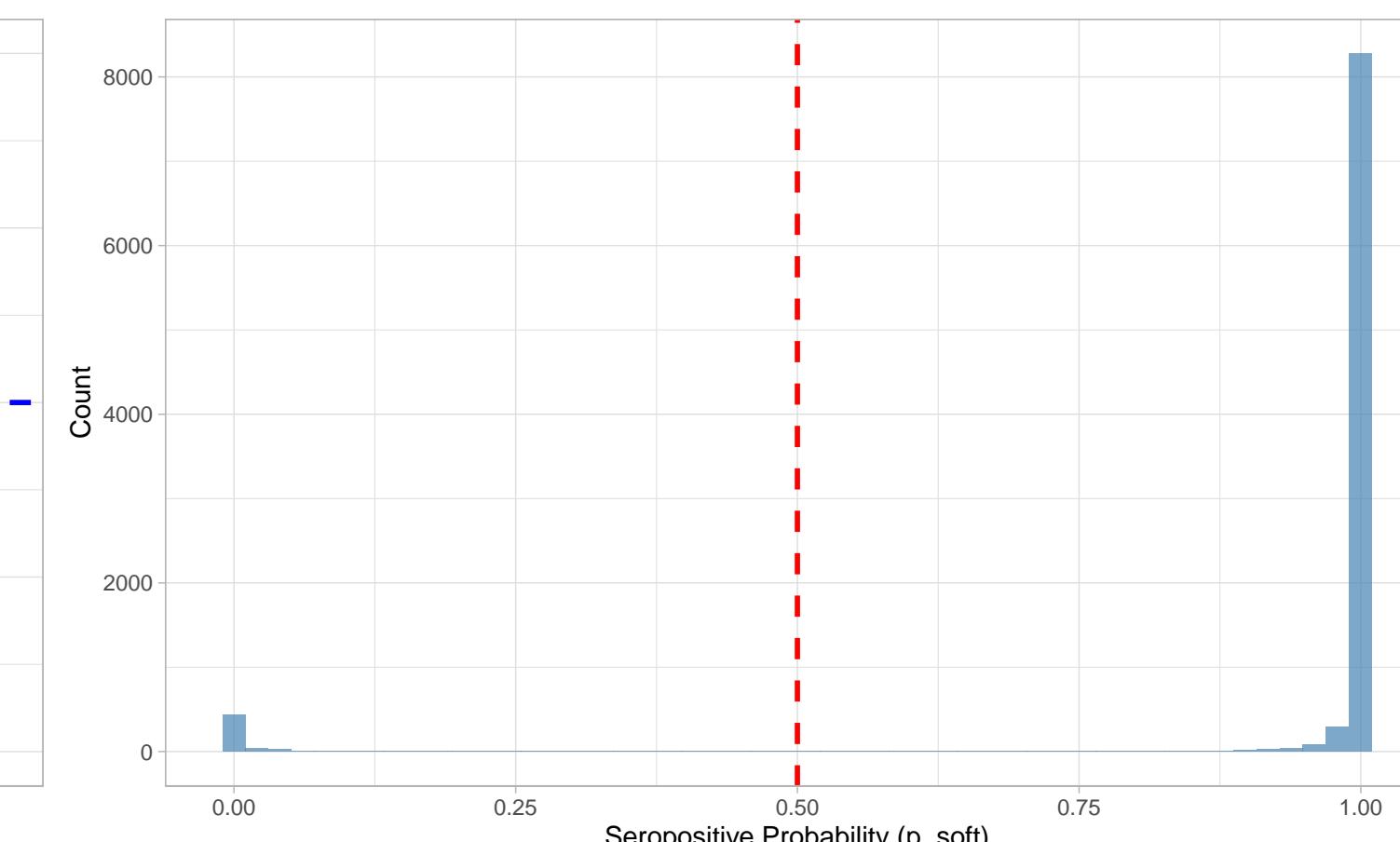
IgG Level vs. Seropositive Probability: ebv_vca

Red line = BL threshold, Blue line = 50% probability



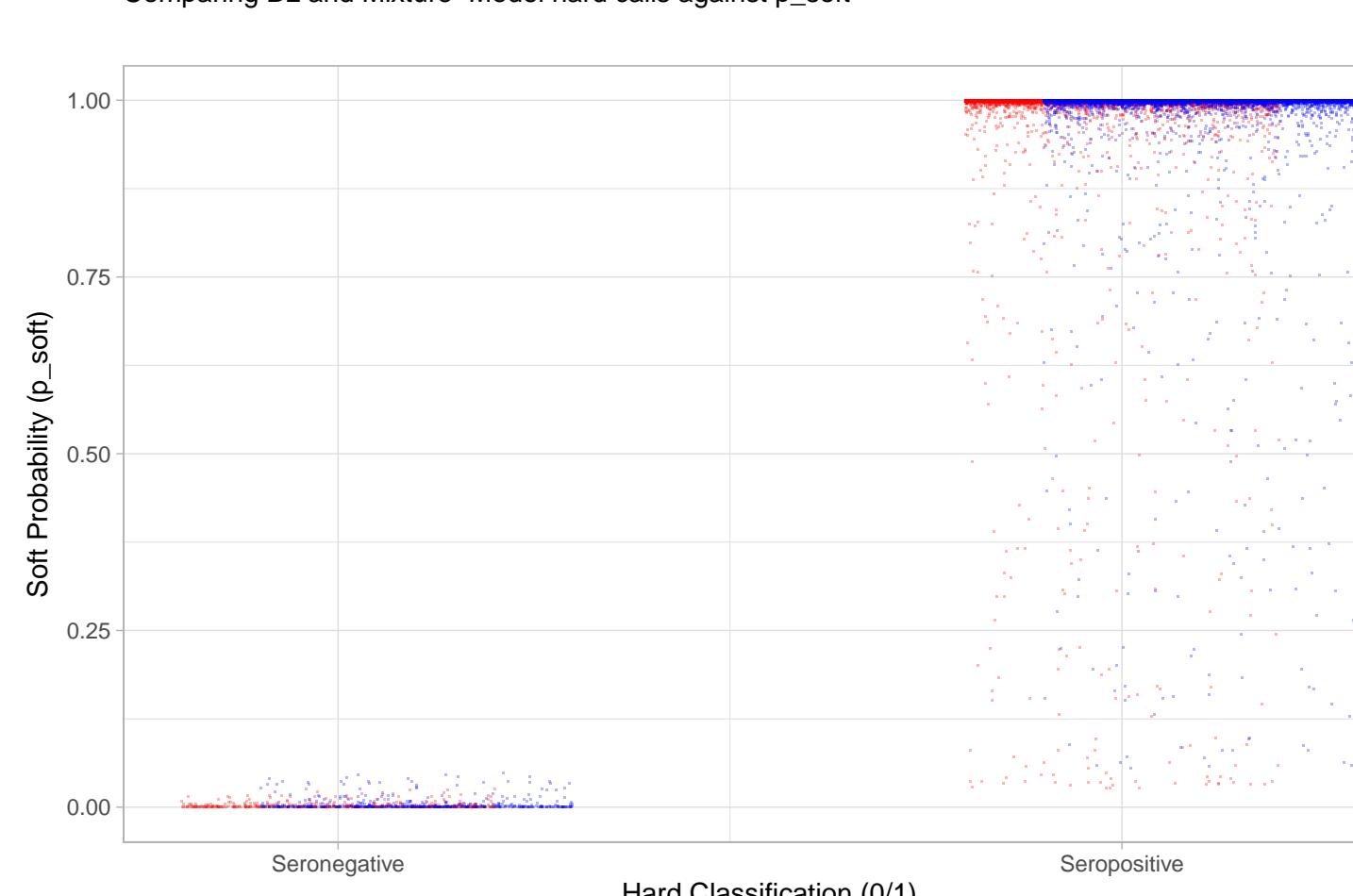
Distribution of Seropositive Probabilities: ebv_vca

Red line = 50% threshold



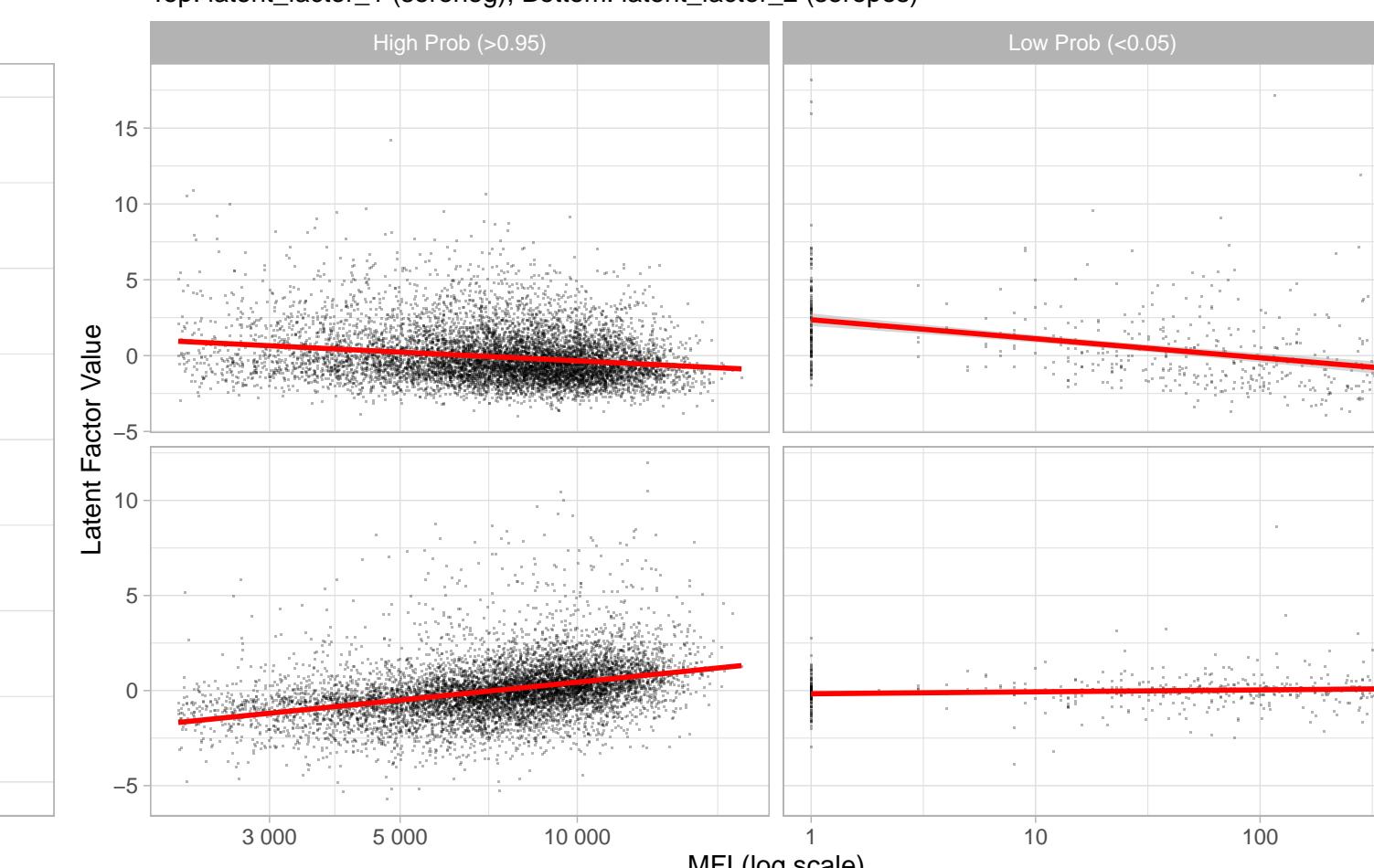
Hard Calls vs. Soft Probability: ebv_vca

Comparing BL and Mixture-Model hard calls against p_soft



Latent Factor Components vs IgG Level: ebv_vca

Top: latent_factor_1 (seroneg), Bottom: latent_factor_2 (seropos)

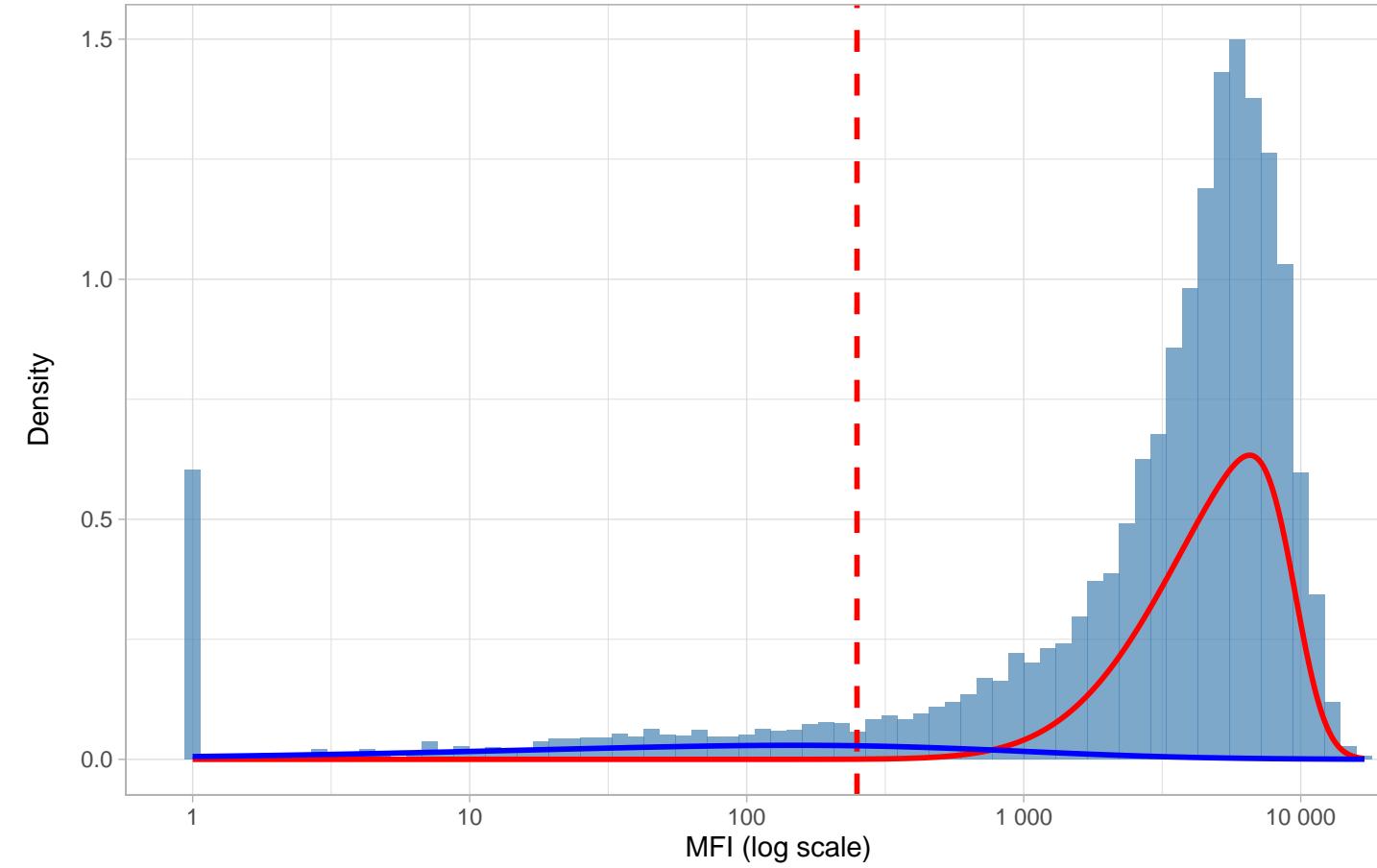


Comprehensive Diagnostics: ebv_ebna1

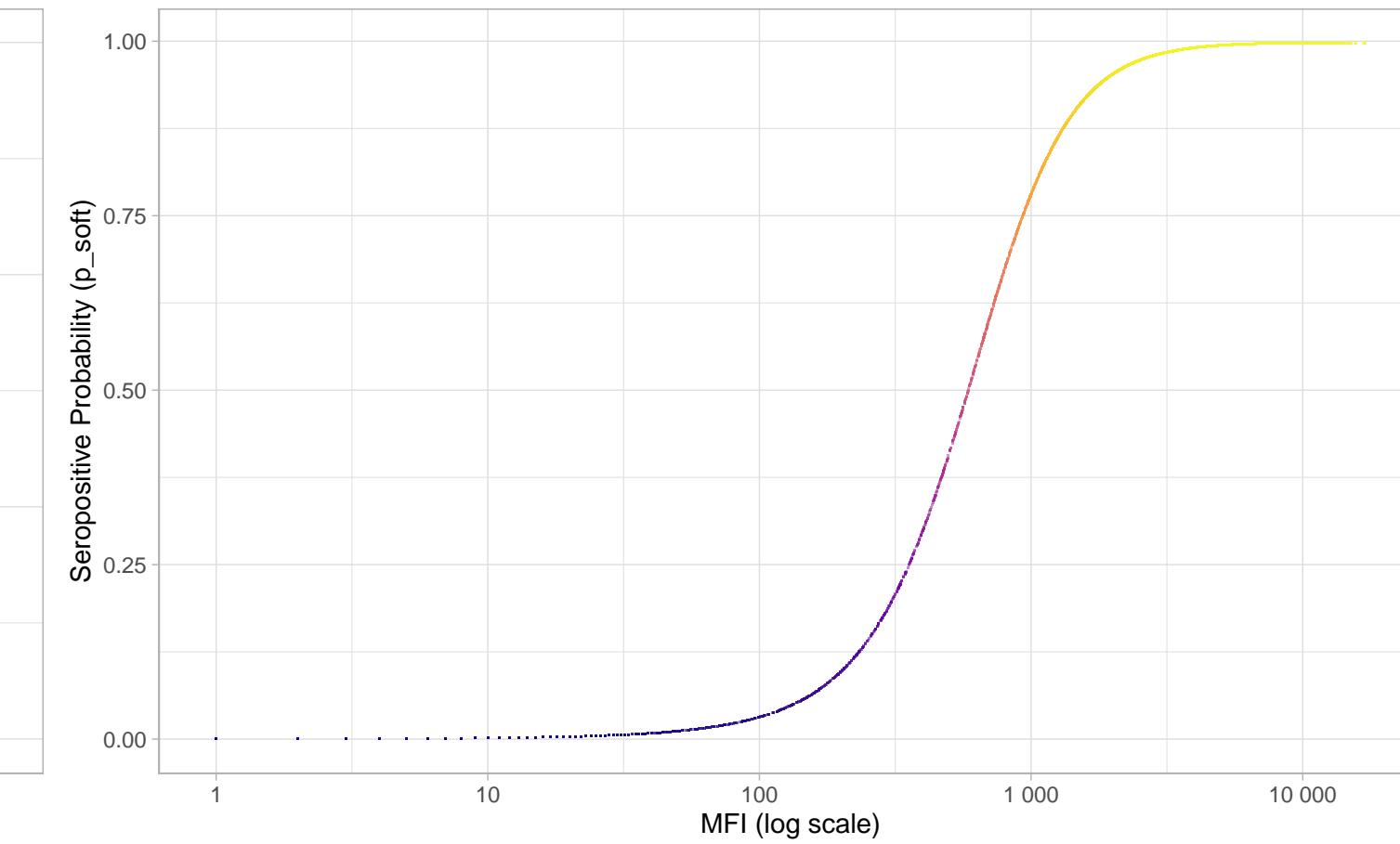
N=9424 | >0.95=6943 | <0.05=876 | Ambig=1605

MFI Distribution: ebv_ebna1

BL Hard Threshold = 250

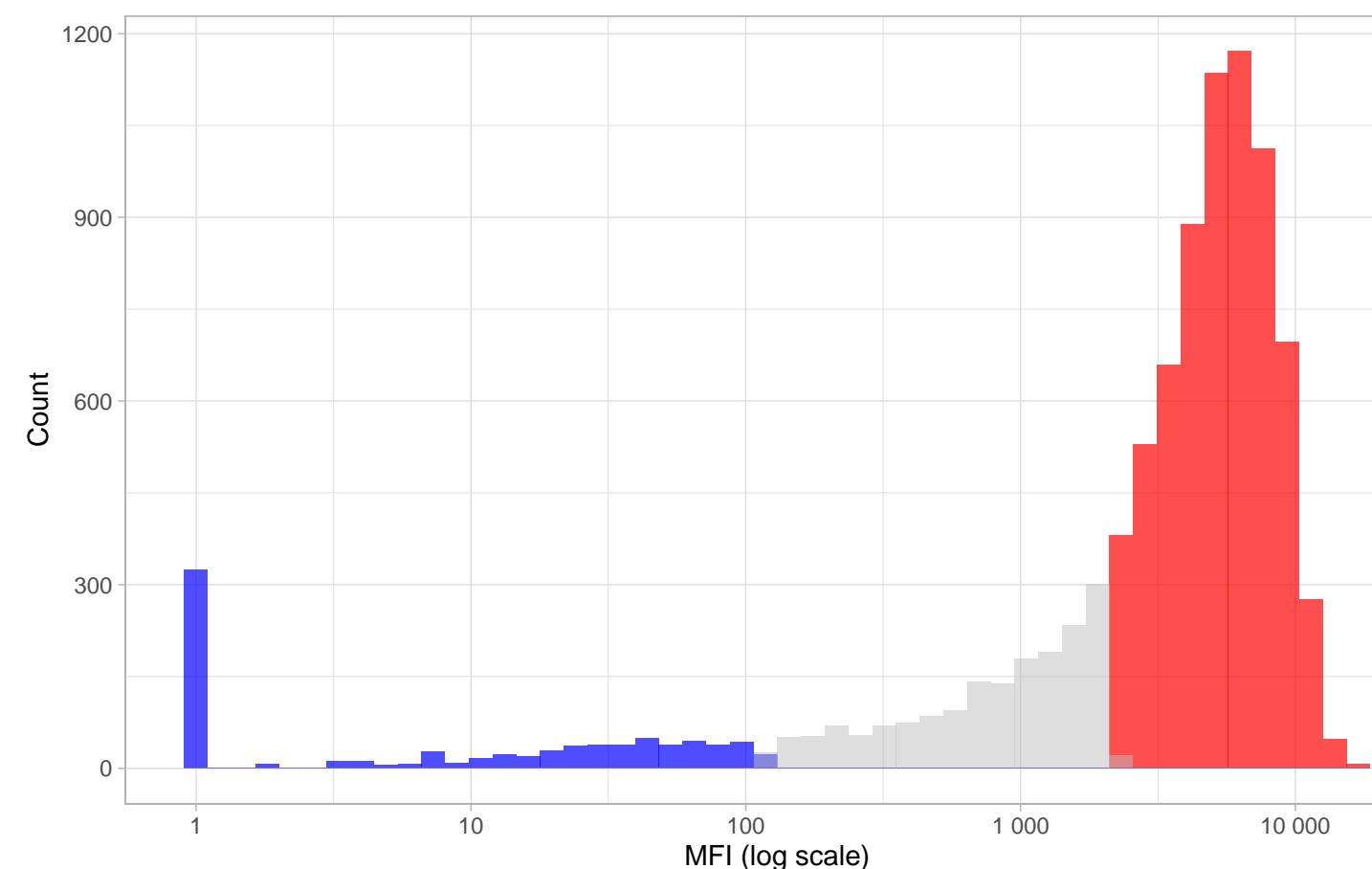


IgG vs Seropositive Probability: ebv_ebna1



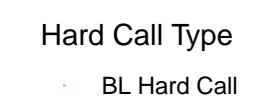
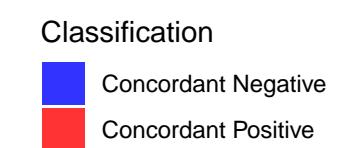
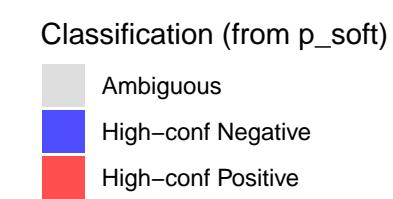
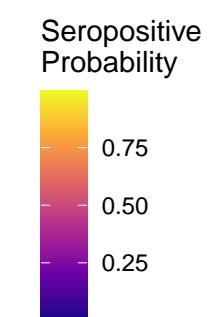
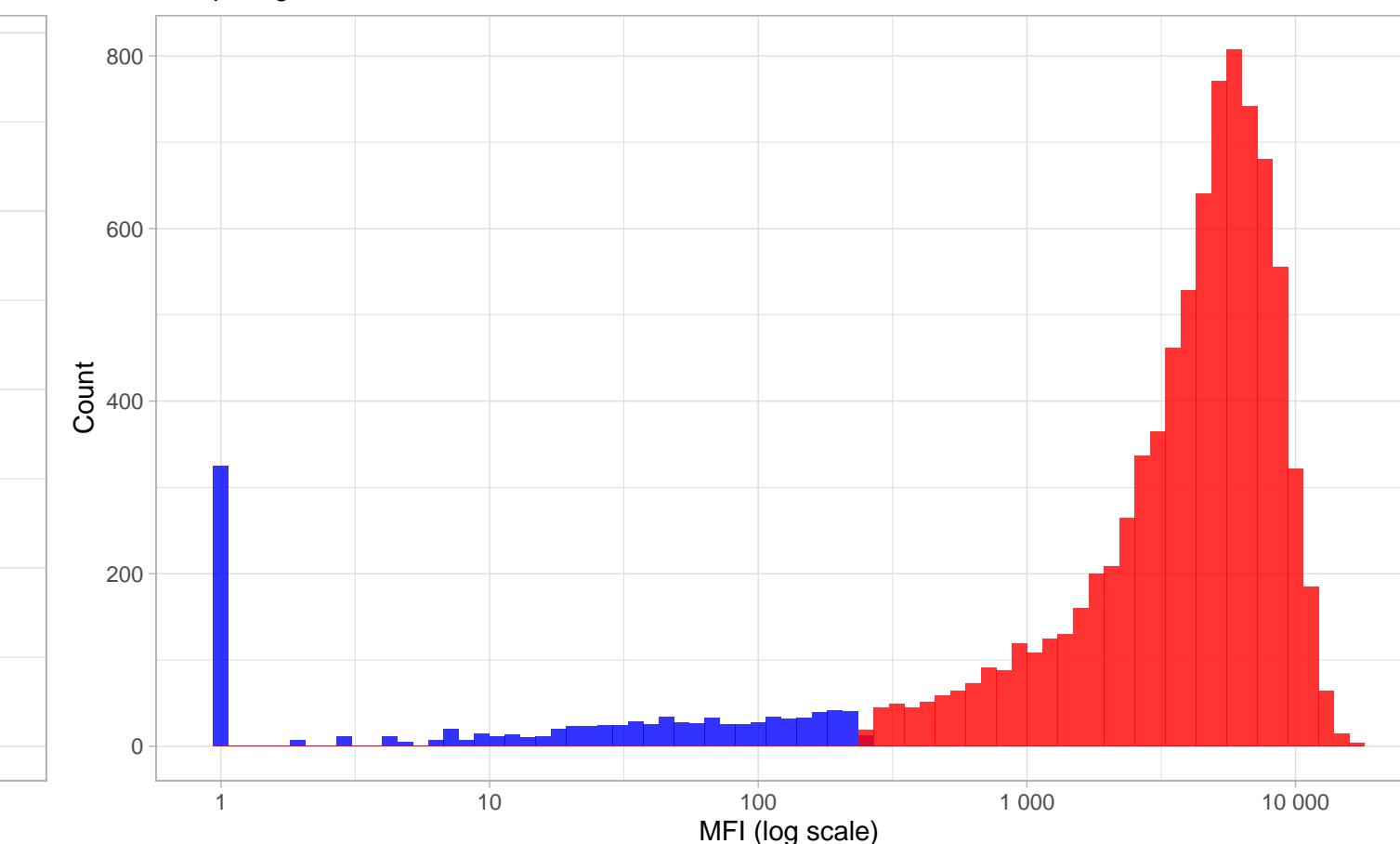
Distribution by Confidence: ebv_ebna1

Prob threshold = 0.96



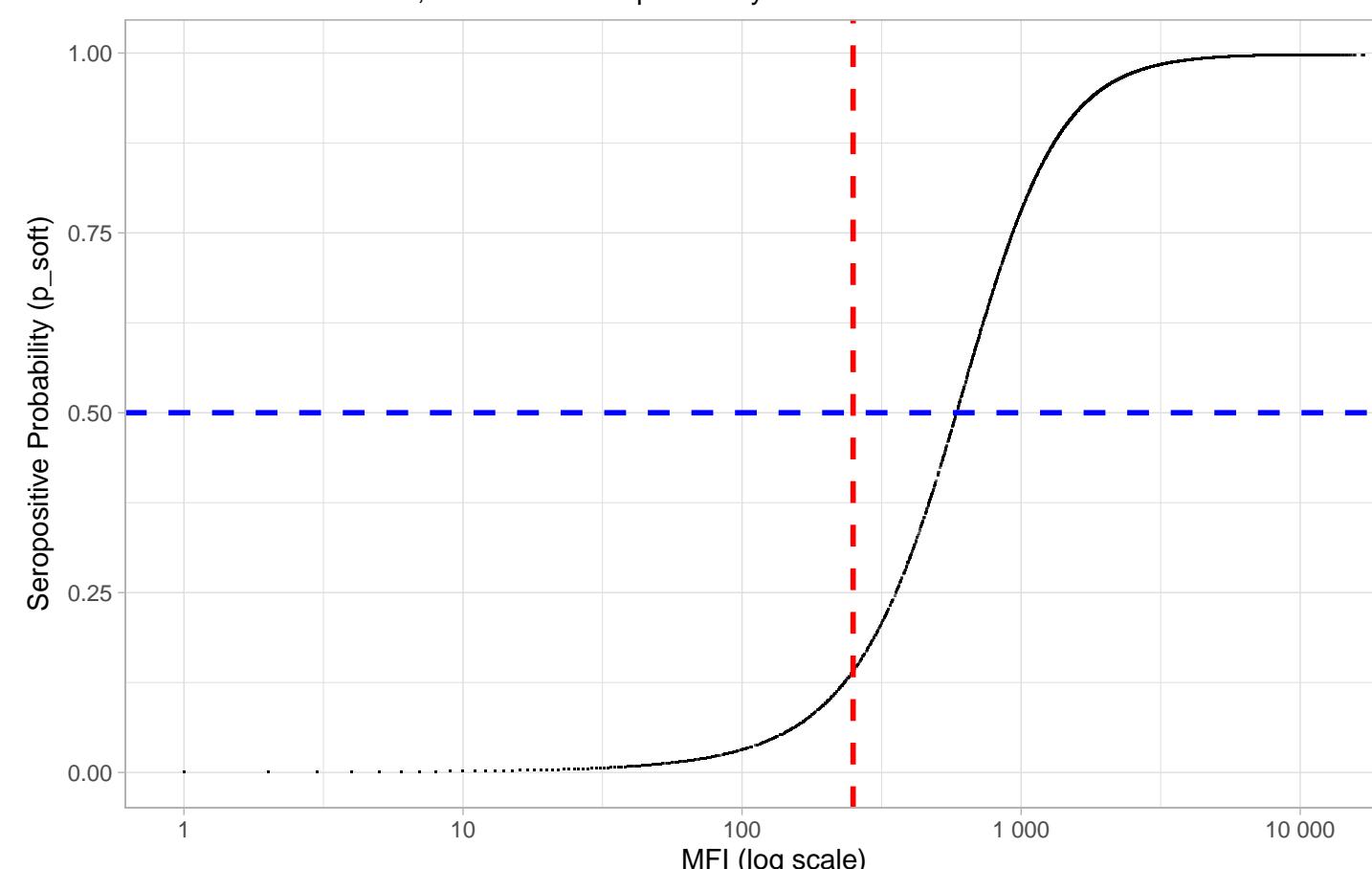
Phenotype Distribution by Classification: ebv_ebna1

Comparing BL vs. Mixture-Model Hard Calls



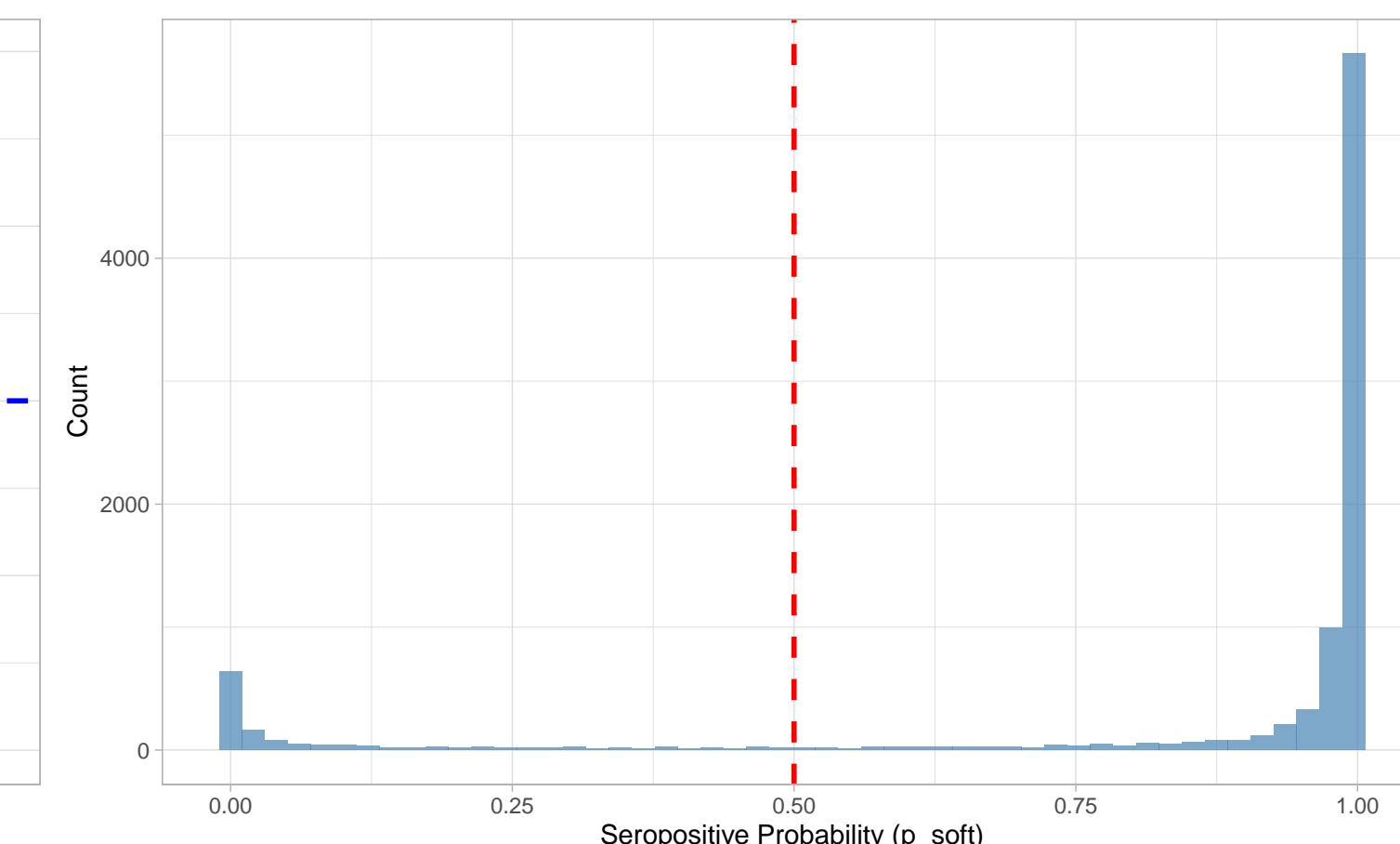
IgG Level vs. Seropositive Probability: ebv_ebna1

Red line = BL threshold, Blue line = 50% probability



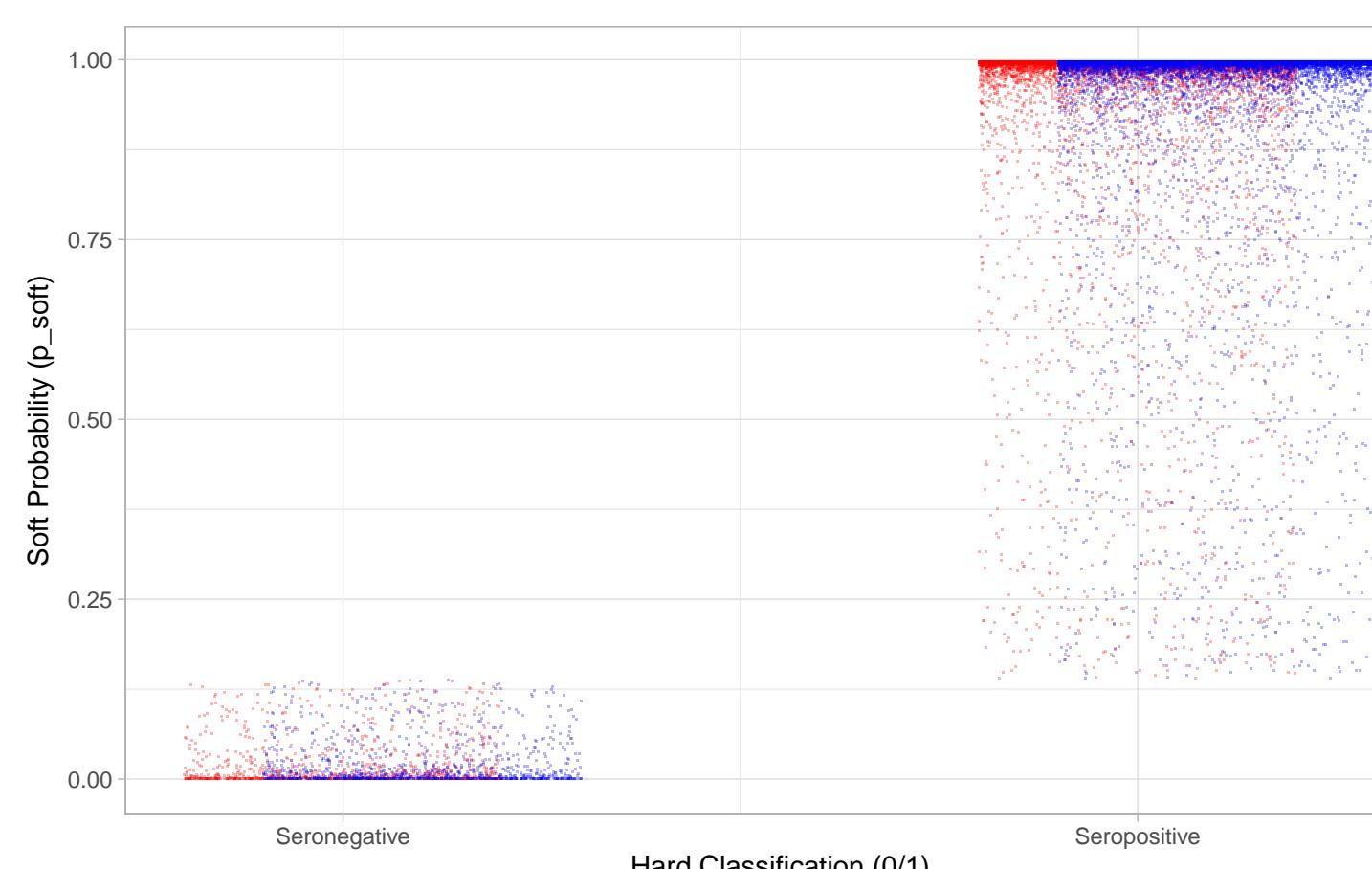
Distribution of Seropositive Probabilities: ebv_ebna1

Red line = 50% threshold



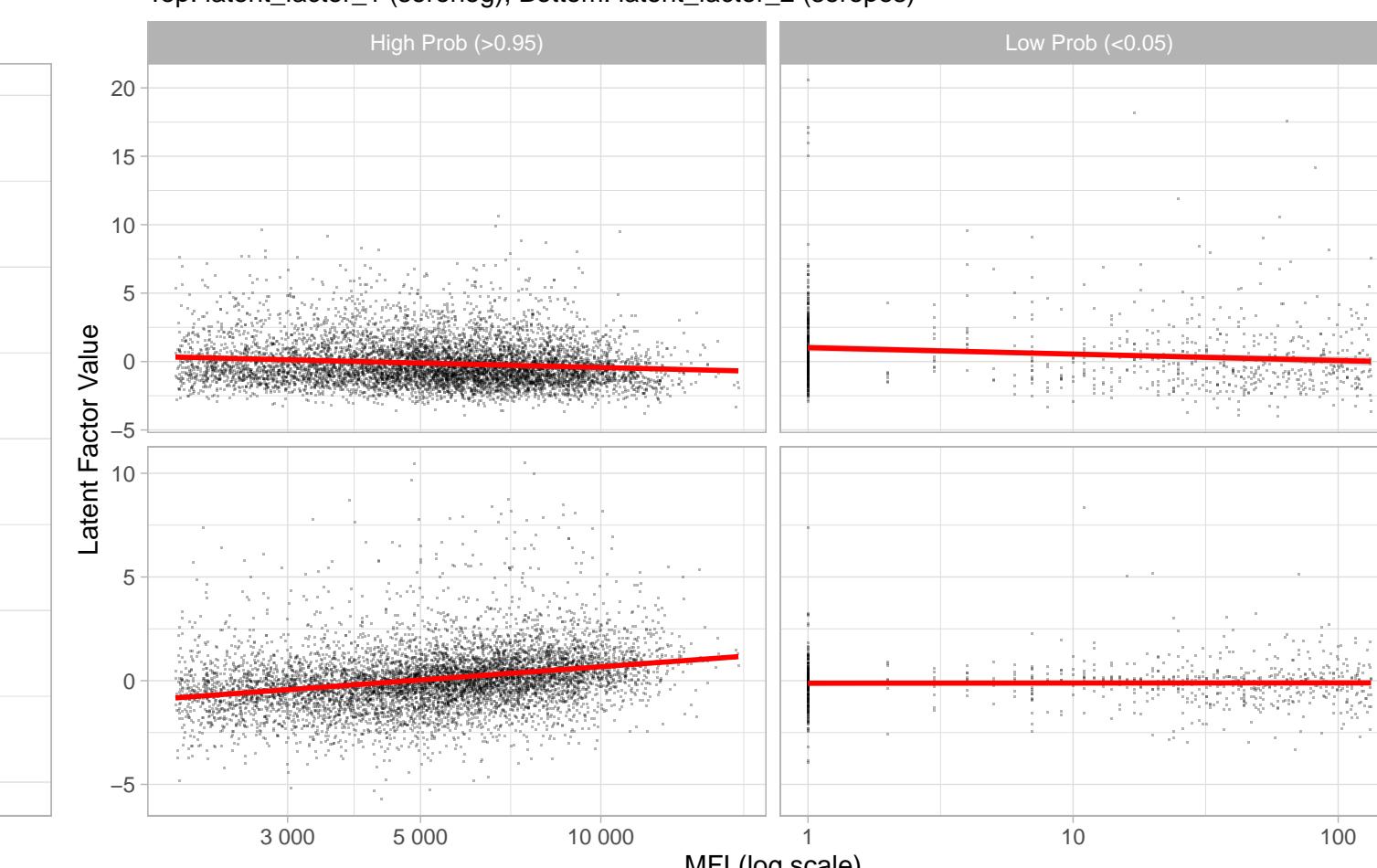
Hard Calls vs. Soft Probability: ebv_ebna1

Comparing BL and Mixture-Model hard calls against p_soft



Latent Factor Components vs IgG Level: ebv_ebna1

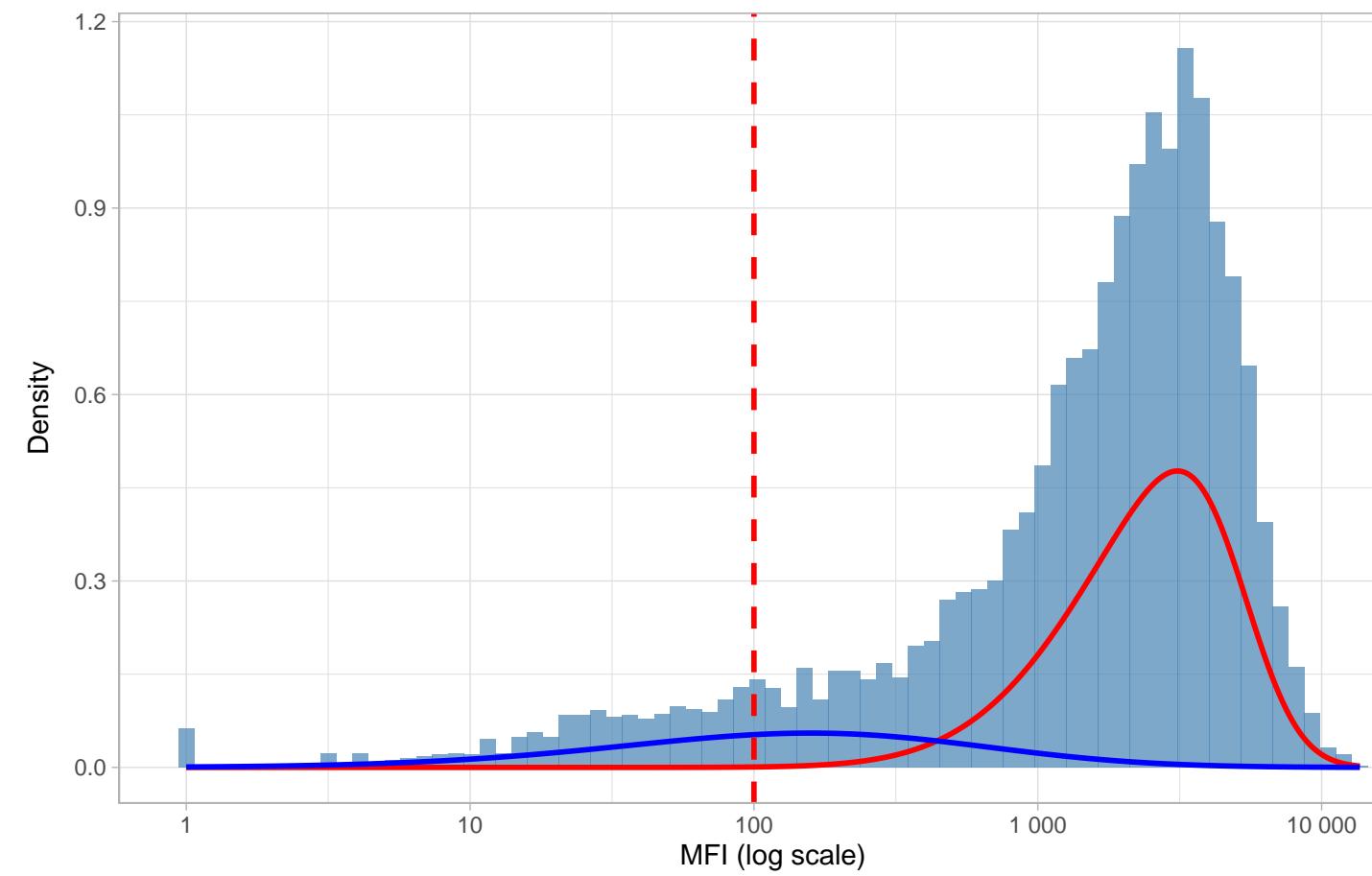
Top: latent_factor_1 (seroneg), Bottom: latent_factor_2 (seropos)



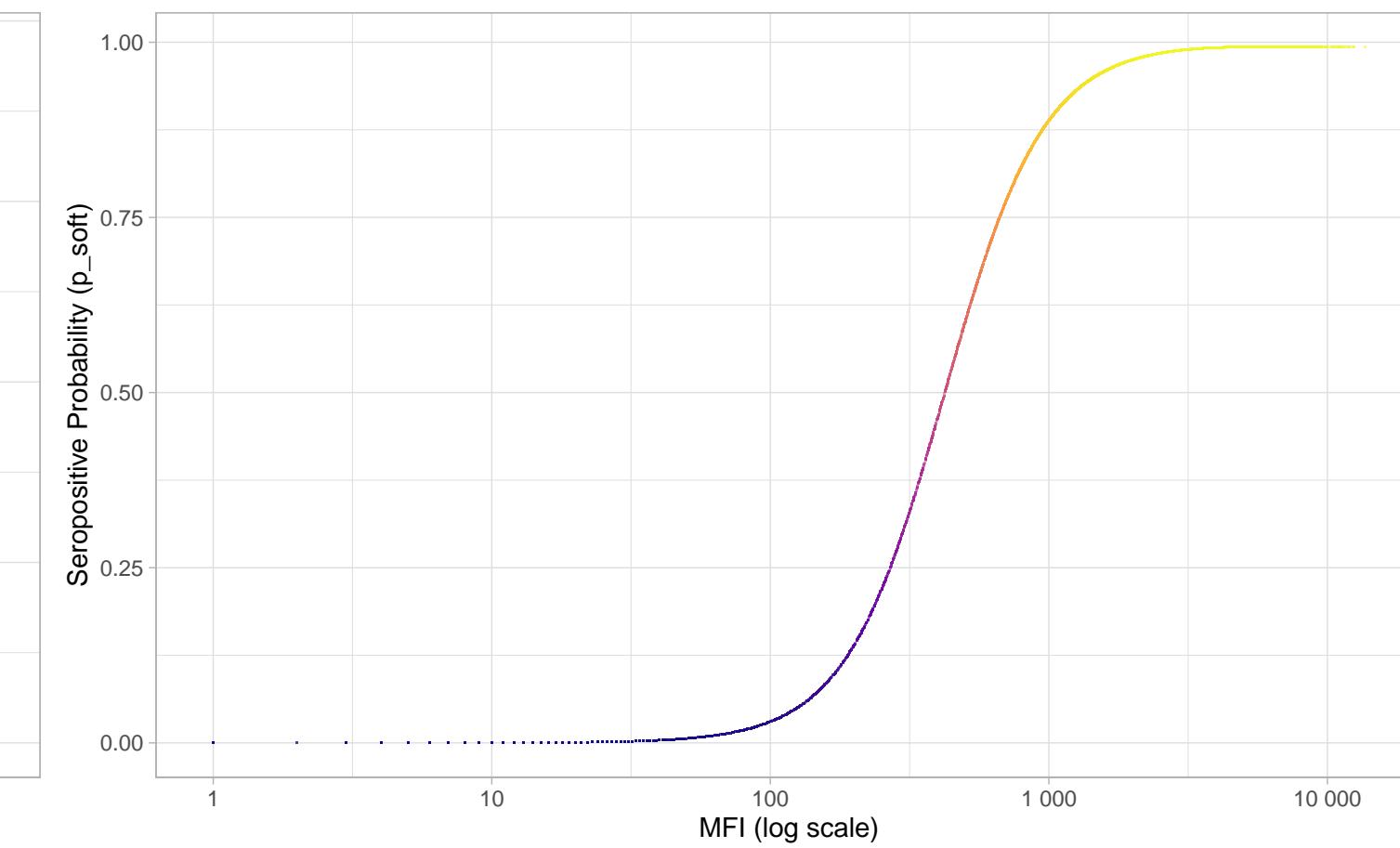
Comprehensive Diagnostics: ebv_zebra

N=9424 | >0.95=5693 | <0.05=957 | Ambig=2774

MFI Distribution: ebv_zebra
BL Hard Threshold = 100

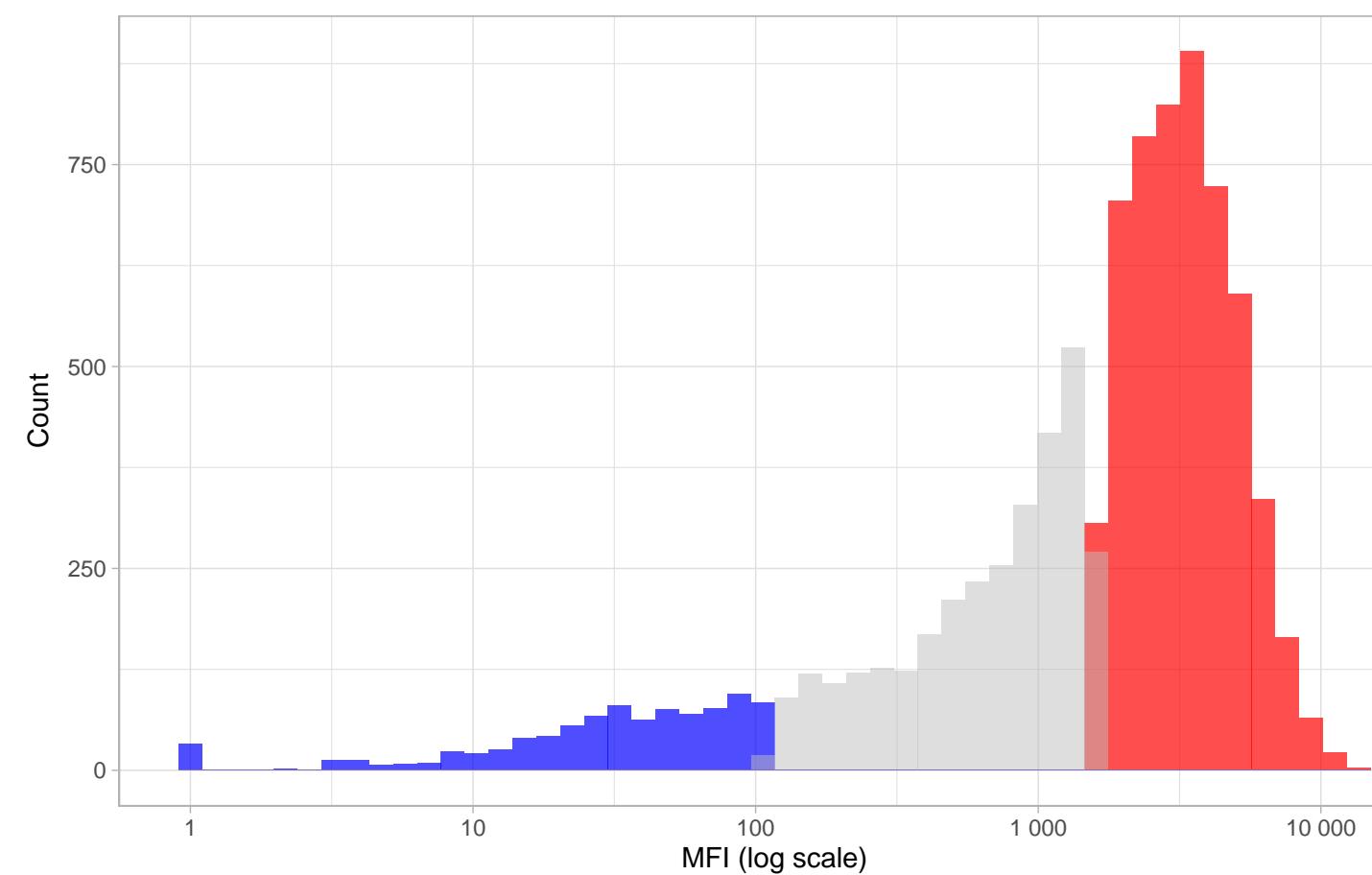


IgG vs Seropositive Probability: ebv_zebra



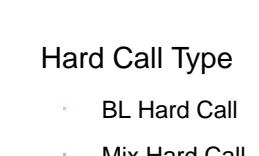
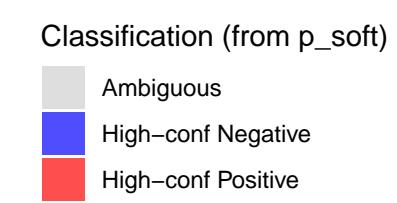
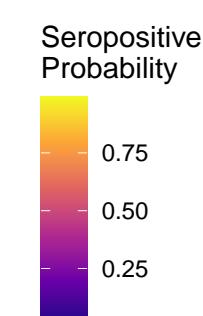
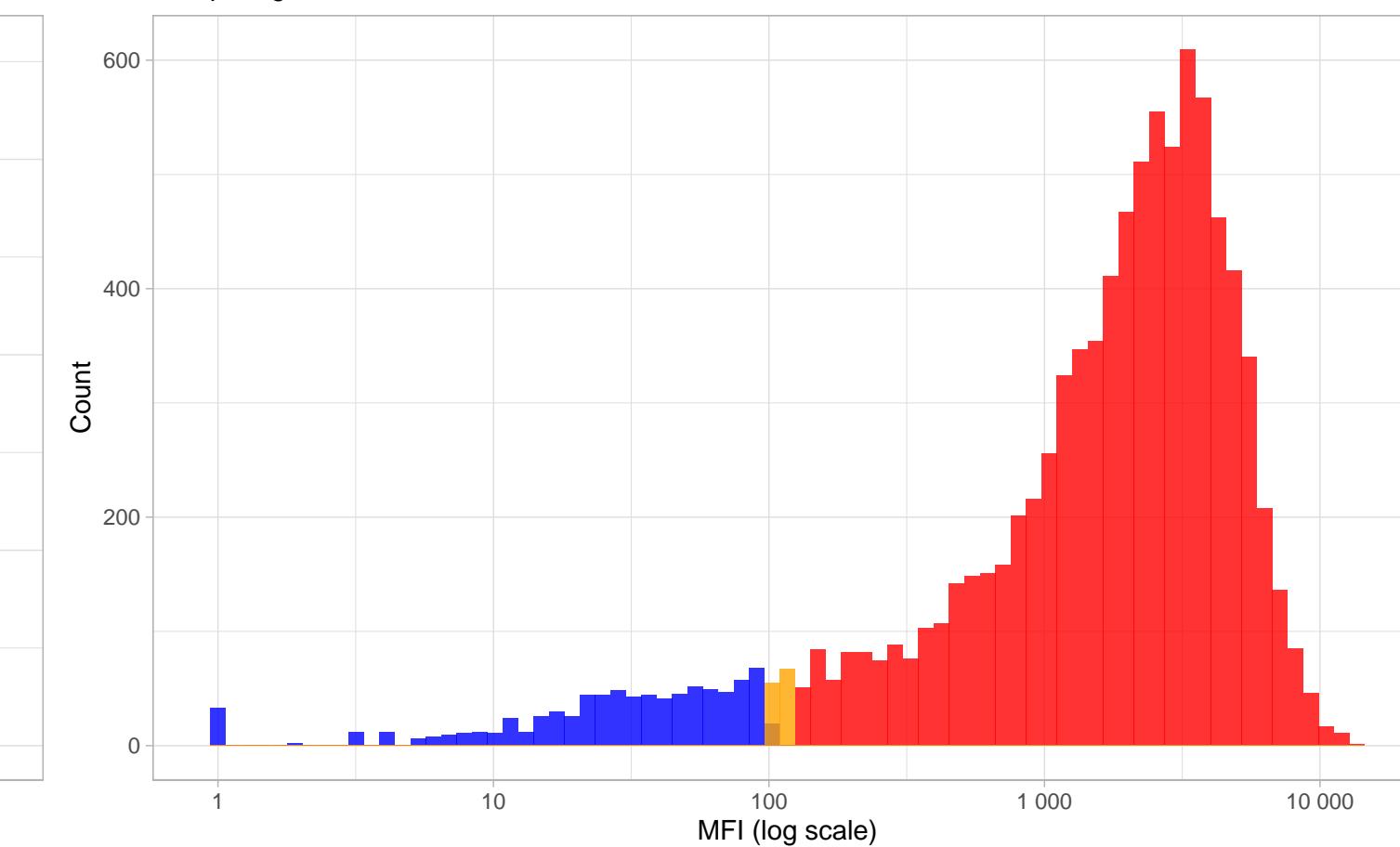
Distribution by Confidence: ebv_zebra

Prob threshold = 0.96



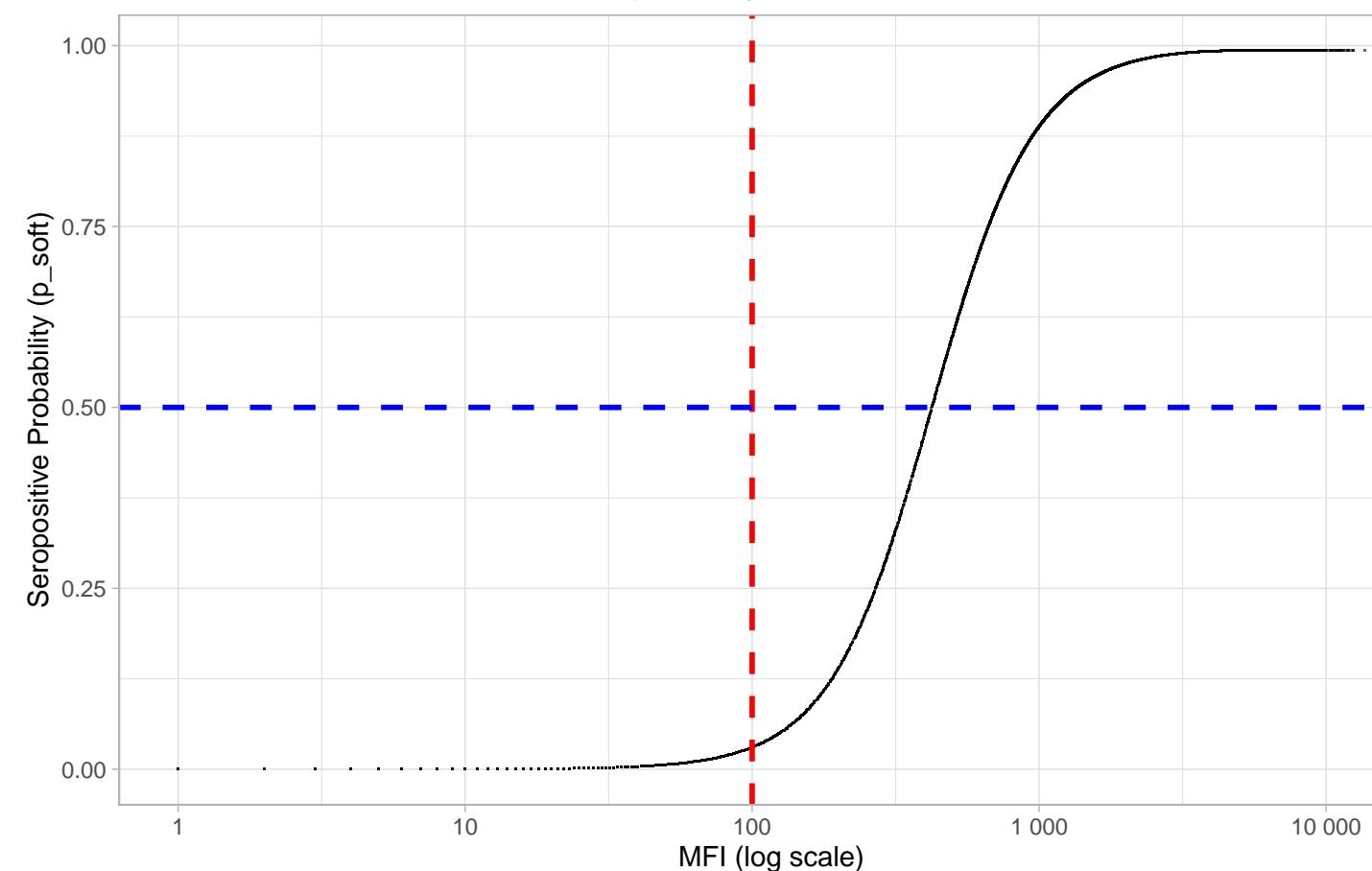
Phenotype Distribution by Classification: ebv_zebra

Comparing BL vs. Mixture-Model Hard Calls



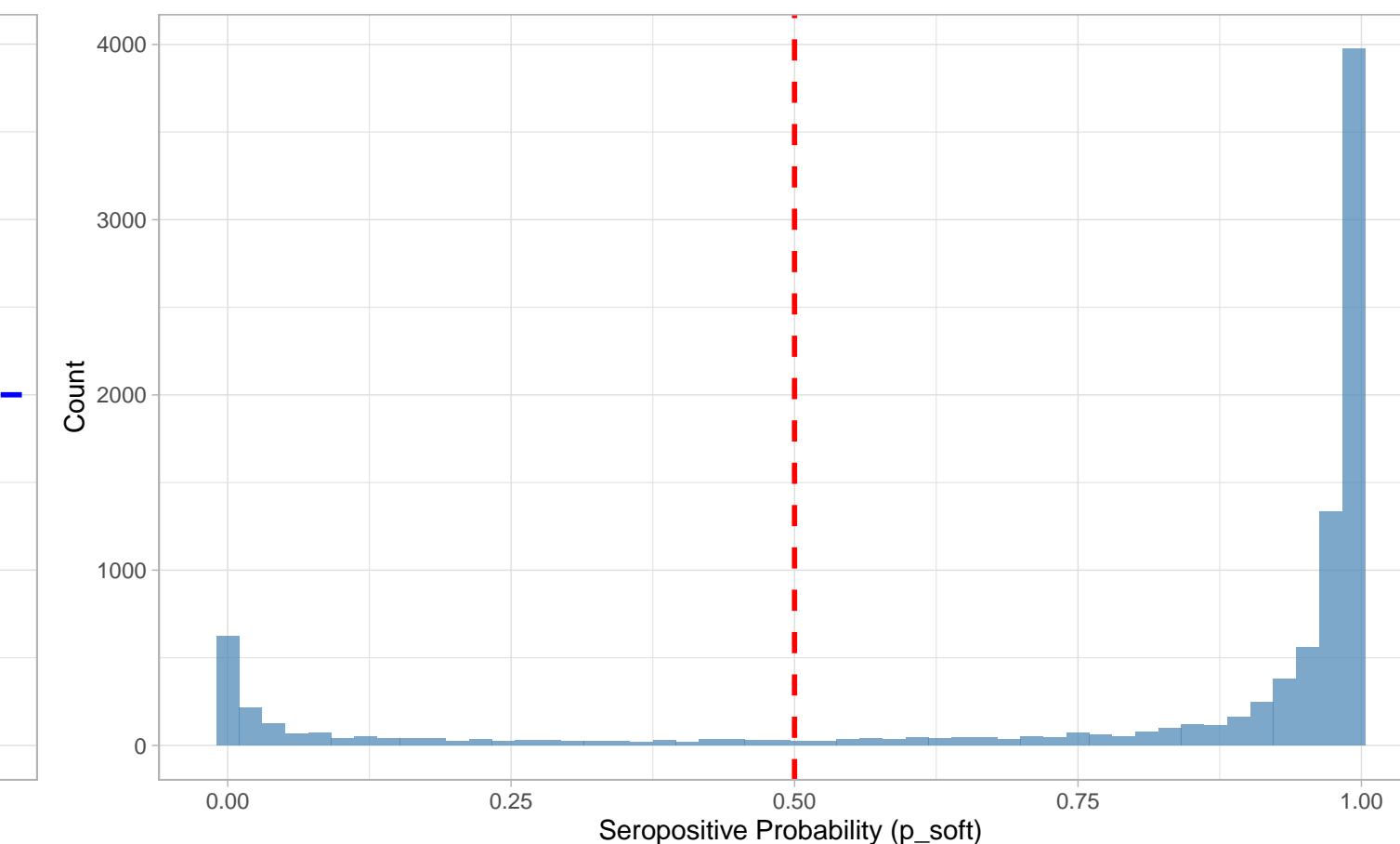
IgG Level vs. Seropositive Probability: ebv_zebra

Red line = BL threshold, Blue line = 50% probability



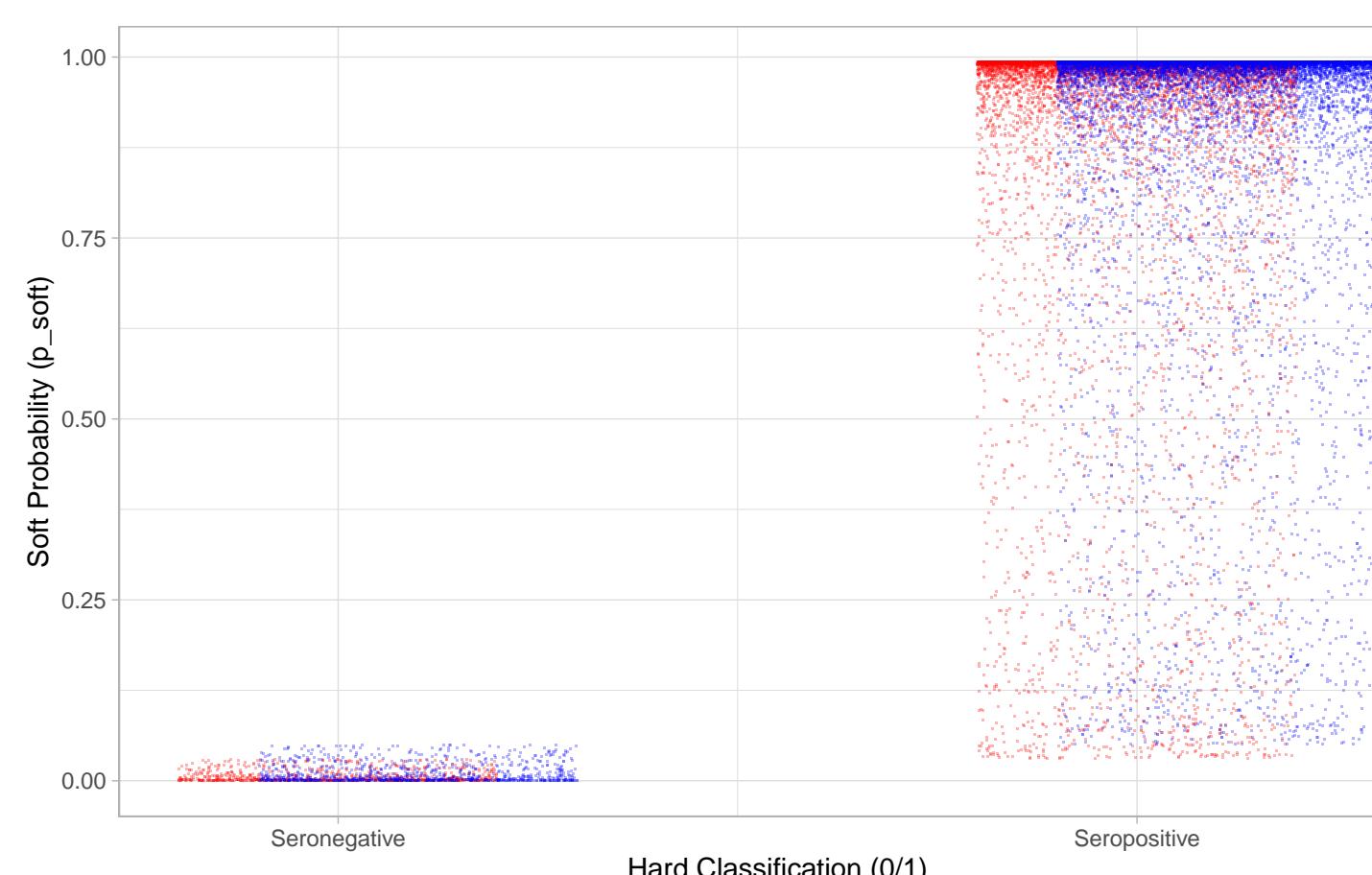
Distribution of Seropositive Probabilities: ebv_zebra

Red line = 50% threshold



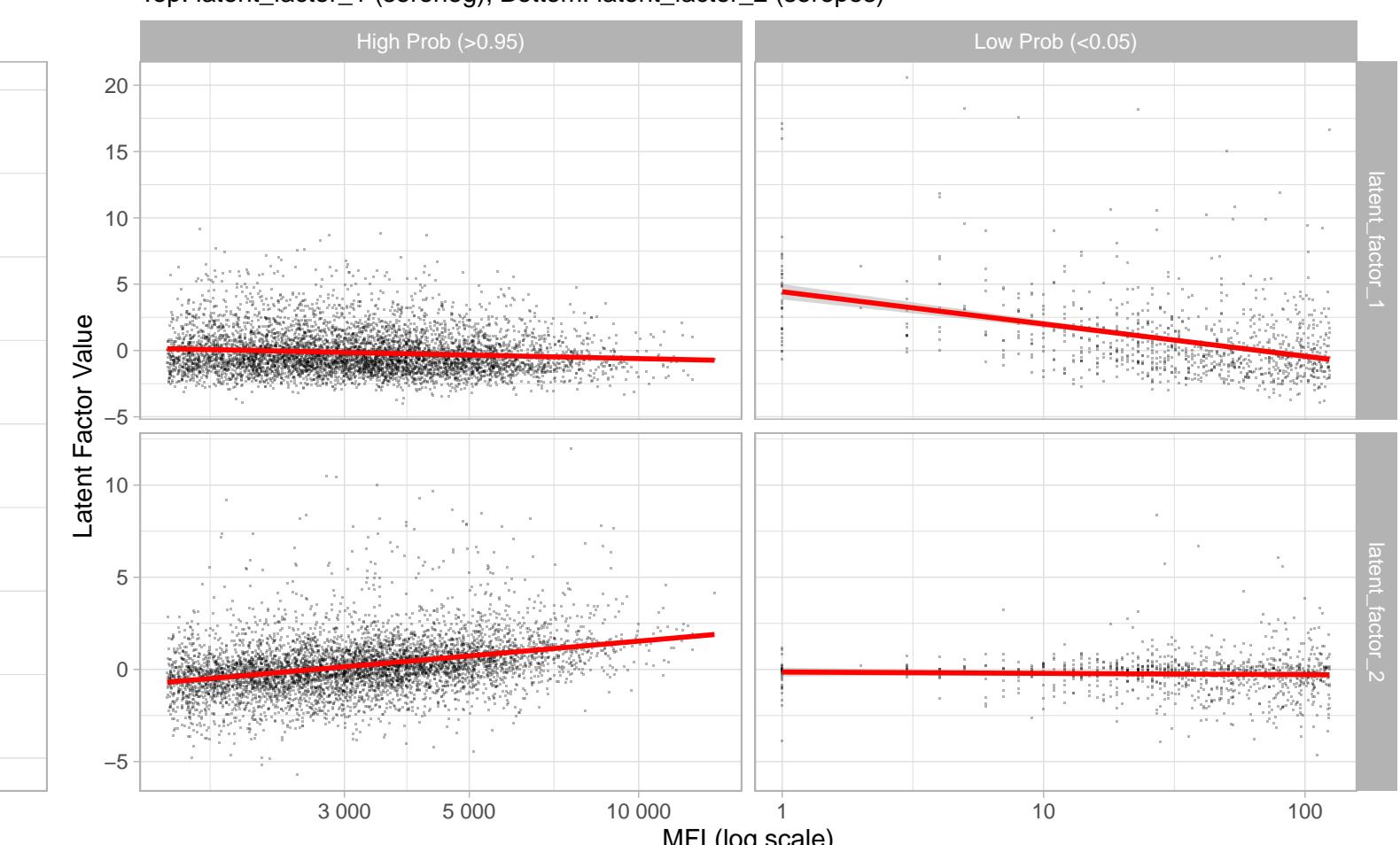
Hard Calls vs. Soft Probability: ebv_zebra

Comparing BL and Mixture-Model hard calls against p_soft



Latent Factor Components vs IgG Level: ebv_zebra

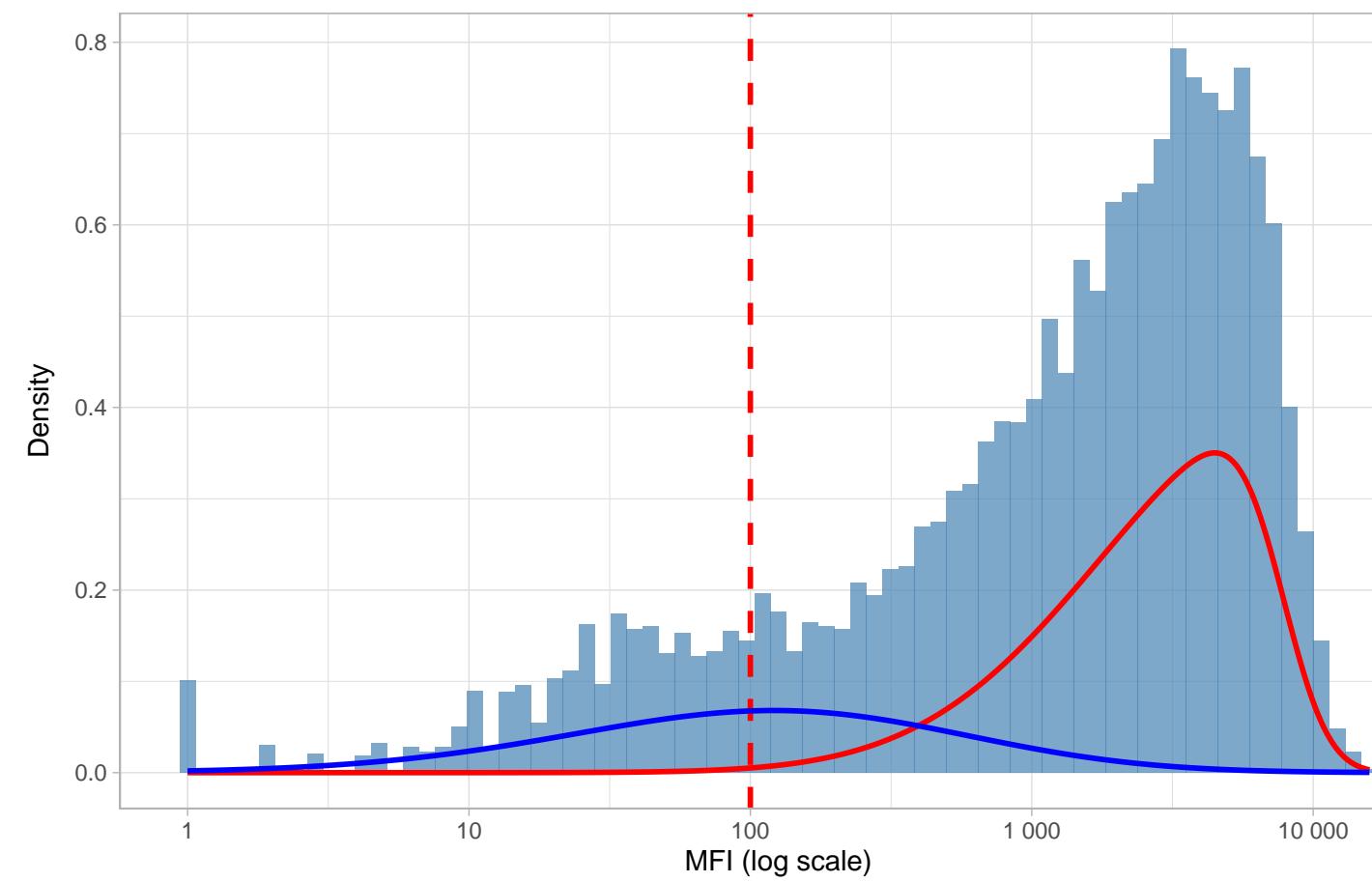
Top: latent_factor_1 (seroneg), Bottom: latent_factor_2 (seropos)



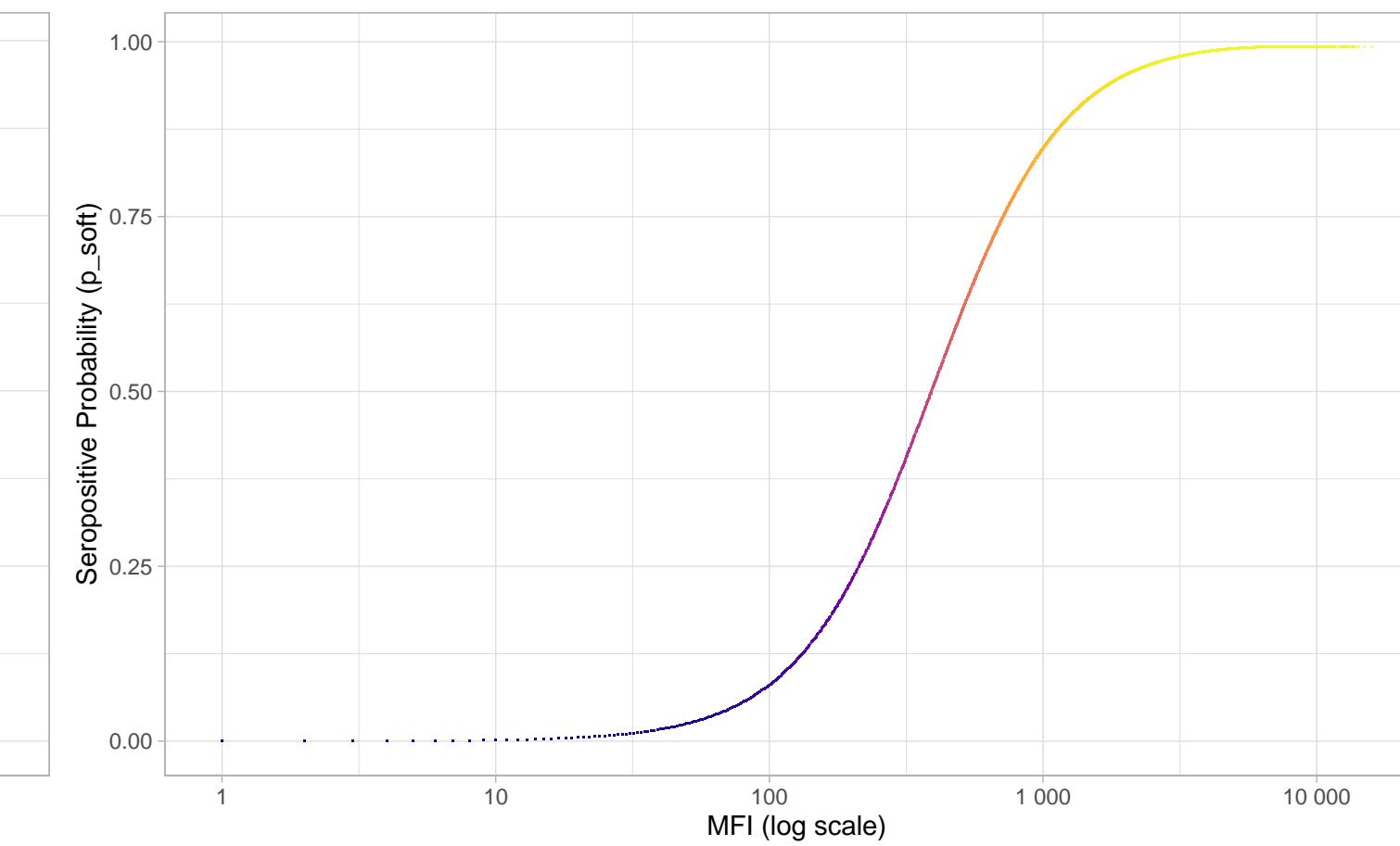
Comprehensive Diagnostics: ebv_ead

N=9424 | >0.95=4416 | <0.05=1138 | Ambig=3870

MFI Distribution: ebv_ead
BL Hard Threshold = 100

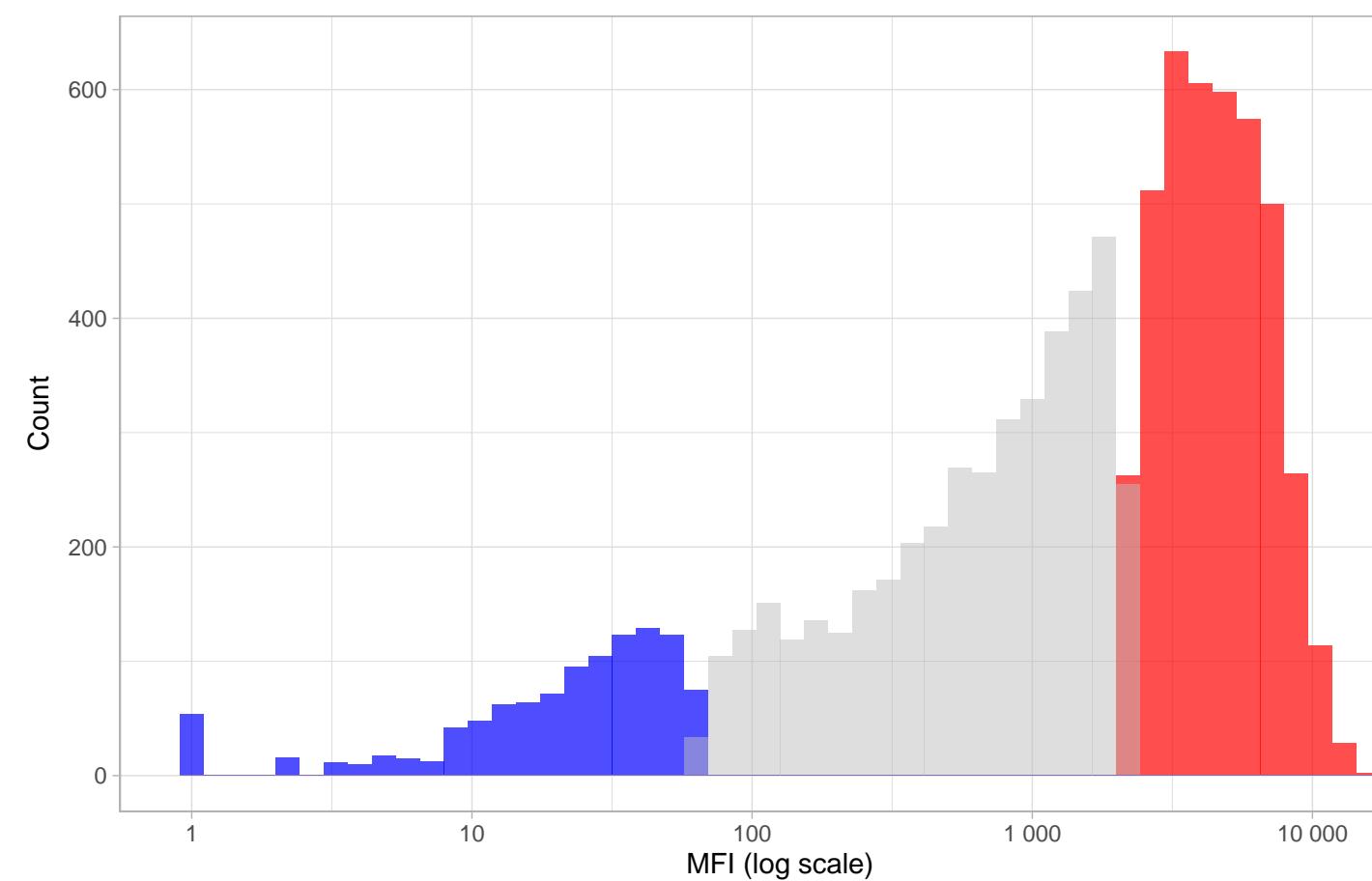


IgG vs Seropositive Probability: ebv_ead



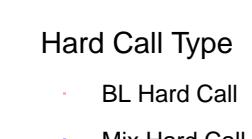
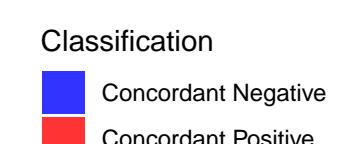
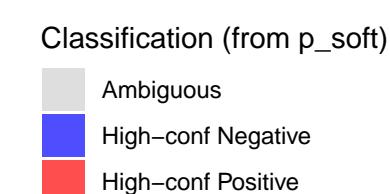
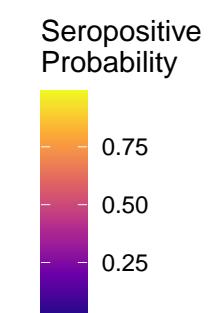
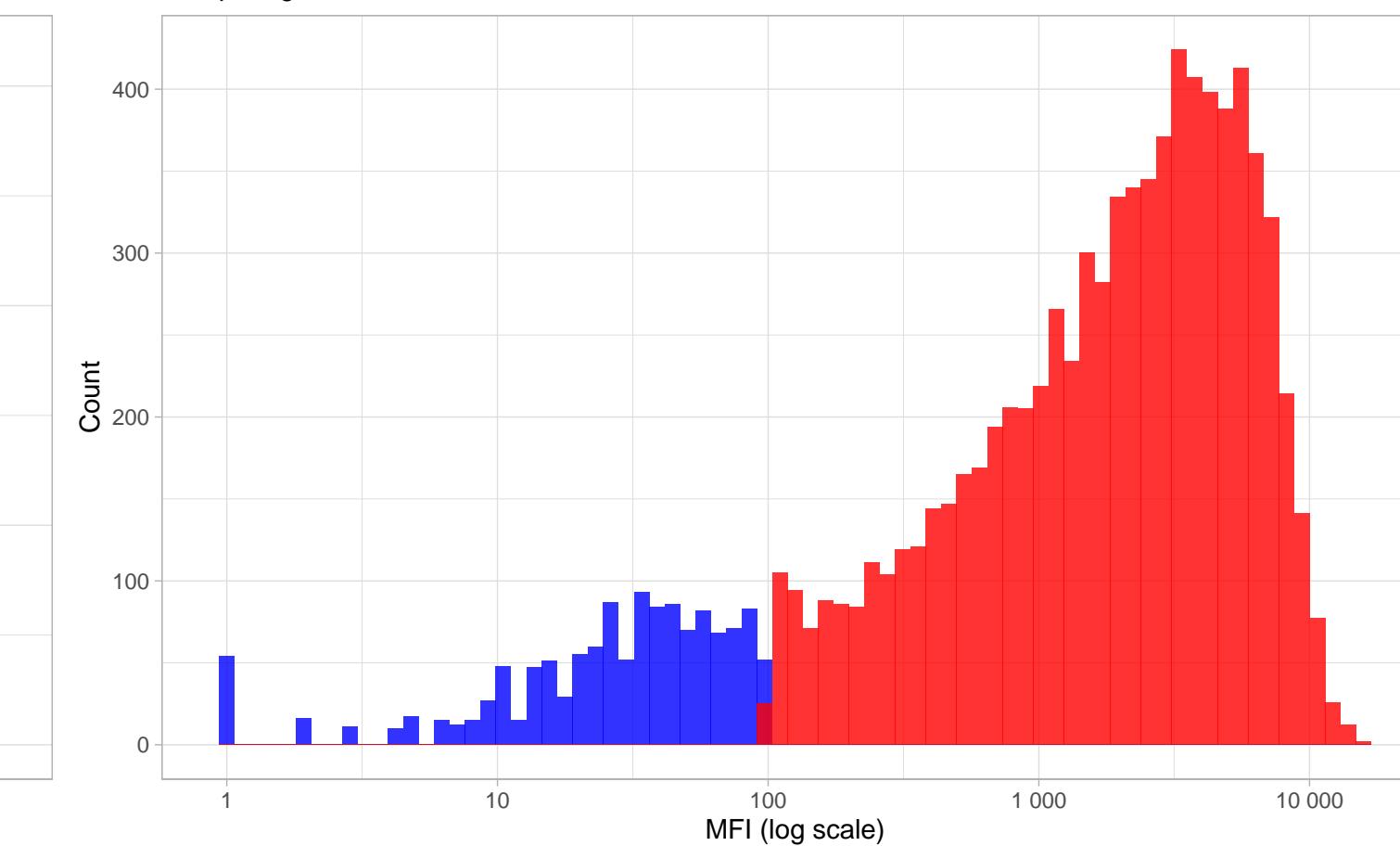
Distribution by Confidence: ebv_ead

Prob threshold = 0.96



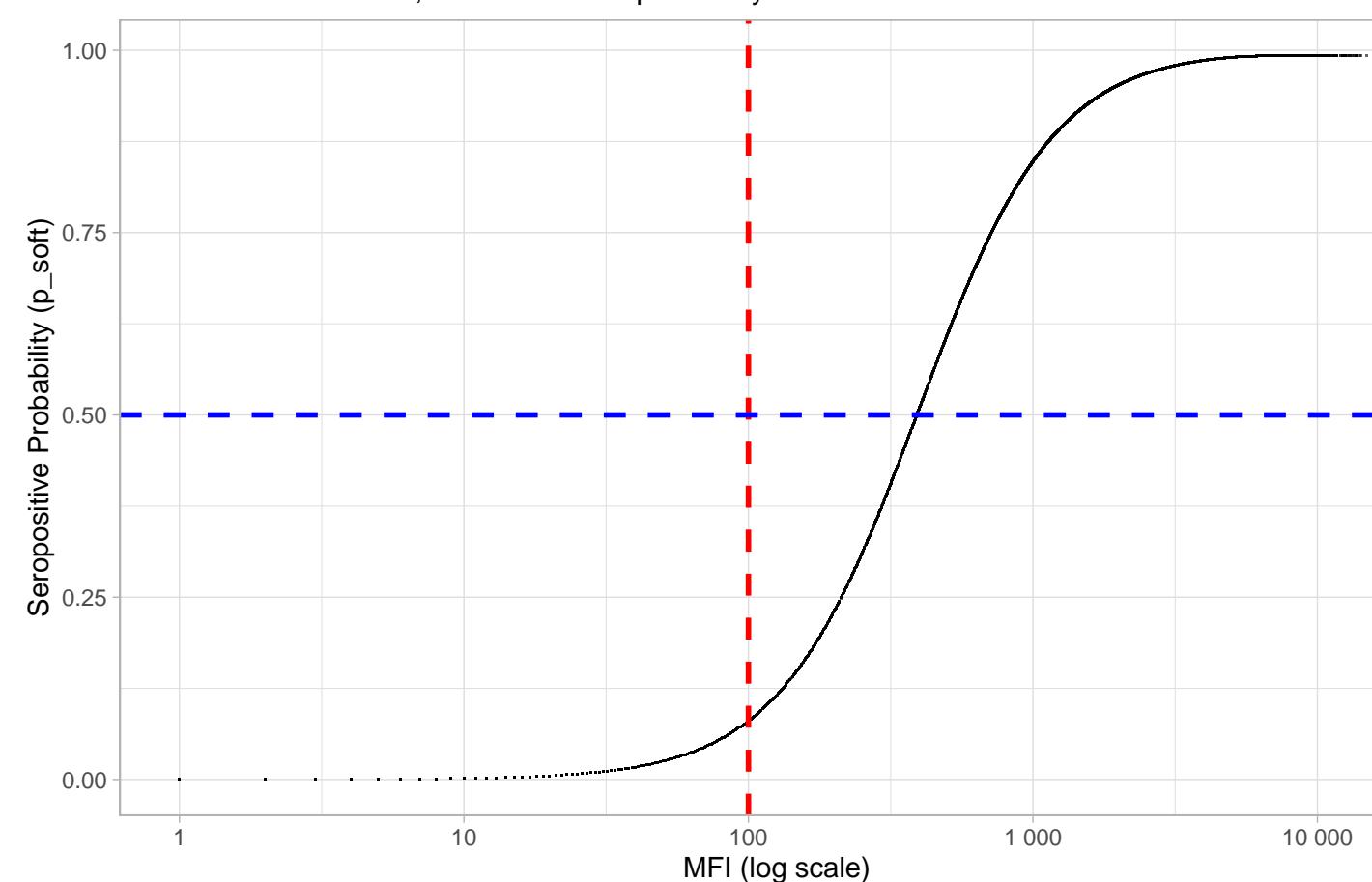
Phenotype Distribution by Classification: ebv_ead

Comparing BL vs. Mixture-Model Hard Calls



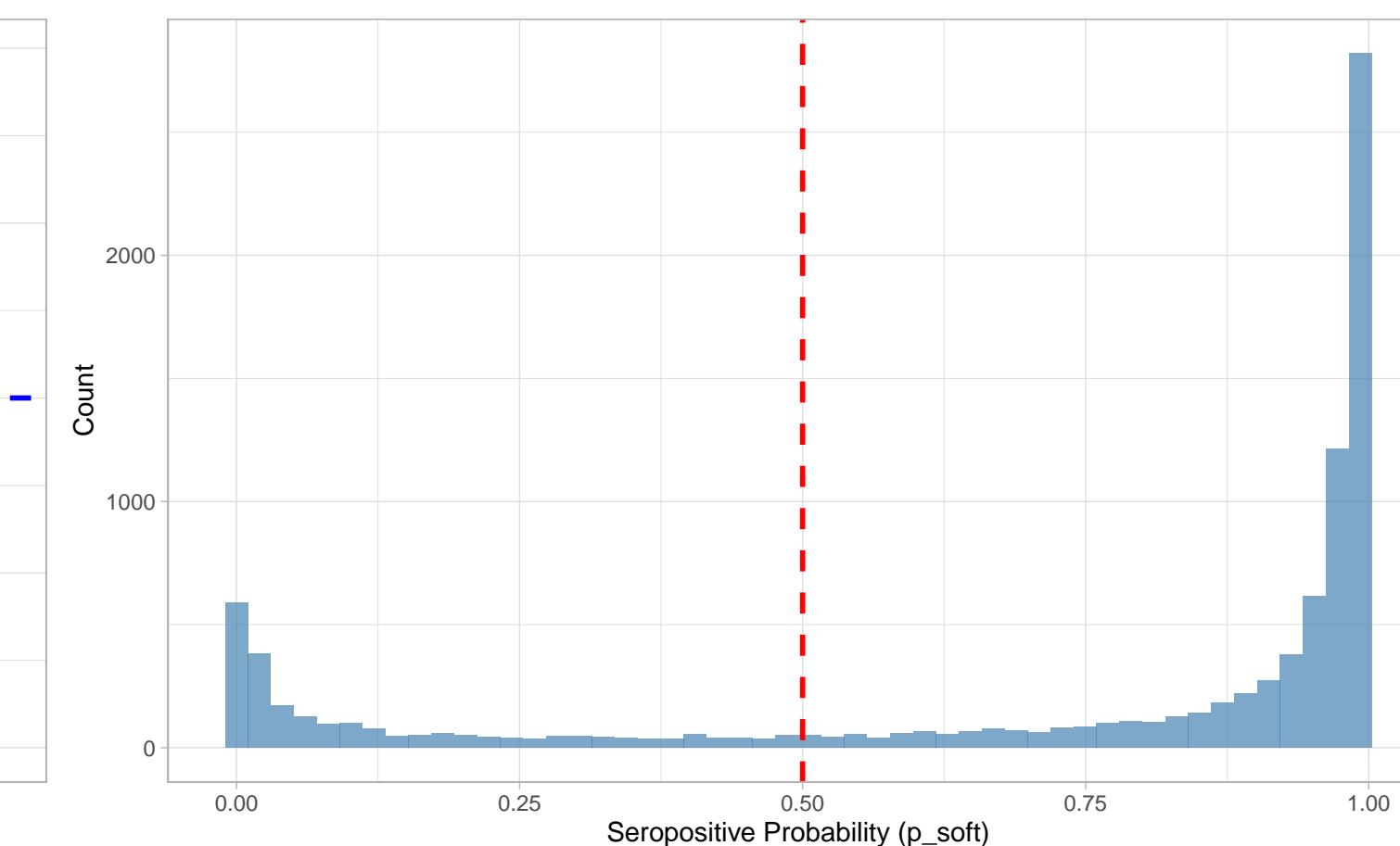
IgG Level vs. Seropositive Probability: ebv_ead

Red line = BL threshold, Blue line = 50% probability



Distribution of Seropositive Probabilities: ebv_ead

Red line = 50% threshold



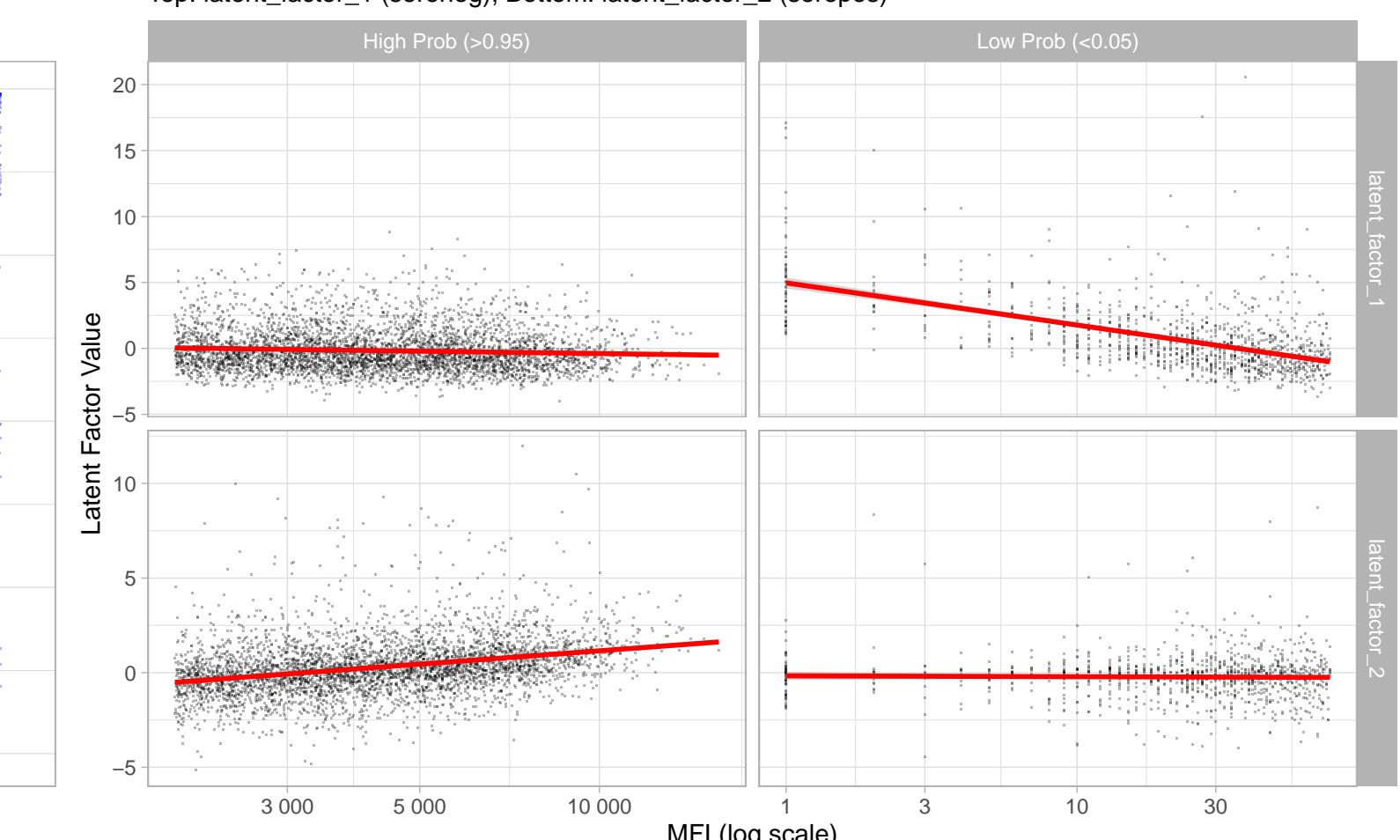
Hard Calls vs. Soft Probability: ebv_ead

Comparing BL and Mixture-Model hard calls against p_soft



Latent Factor Components vs IgG Level: ebv_ead

Top: latent_factor_1 (seroneg), Bottom: latent_factor_2 (seropos)

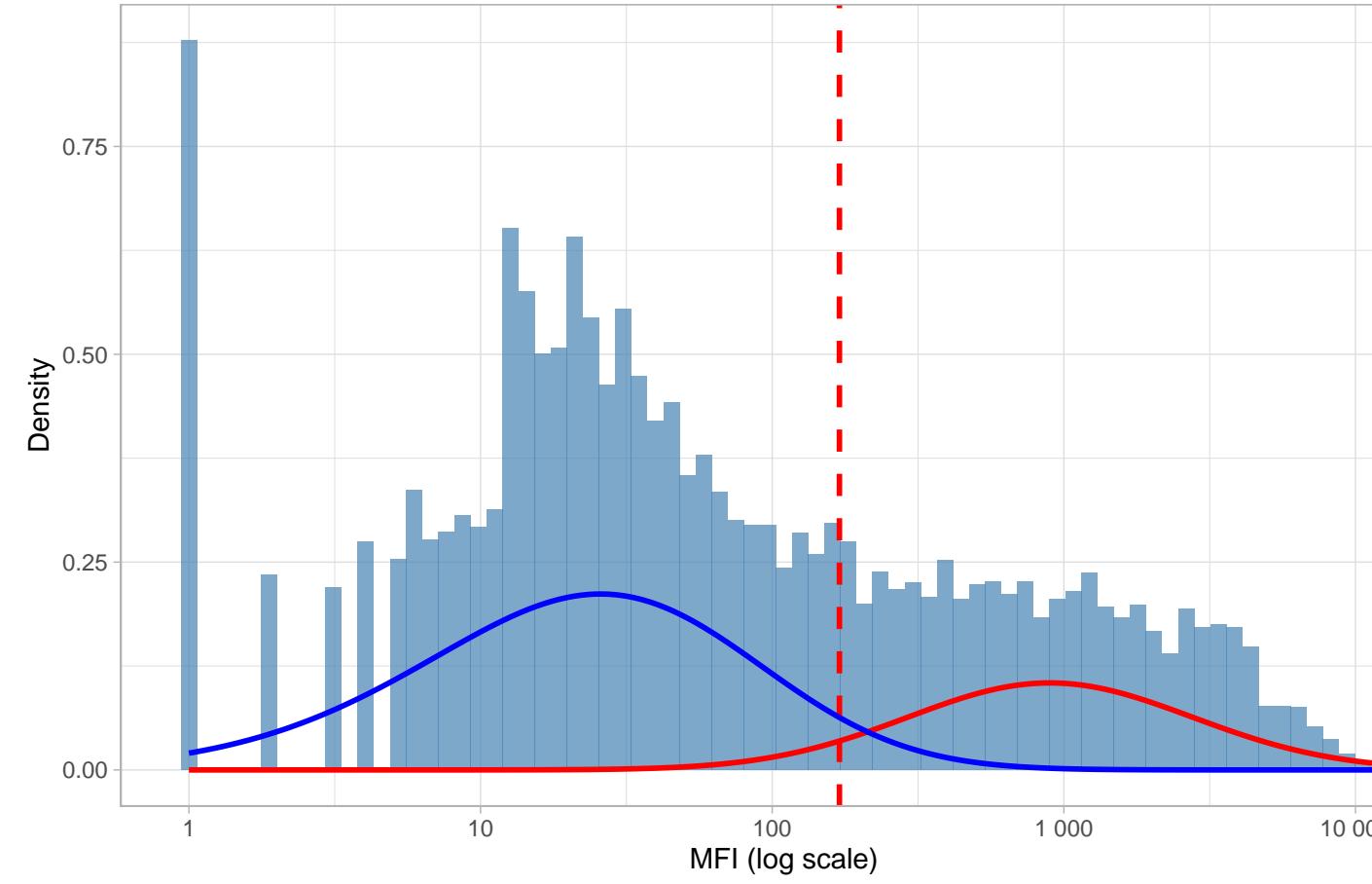


Comprehensive Diagnostics: hp_omp

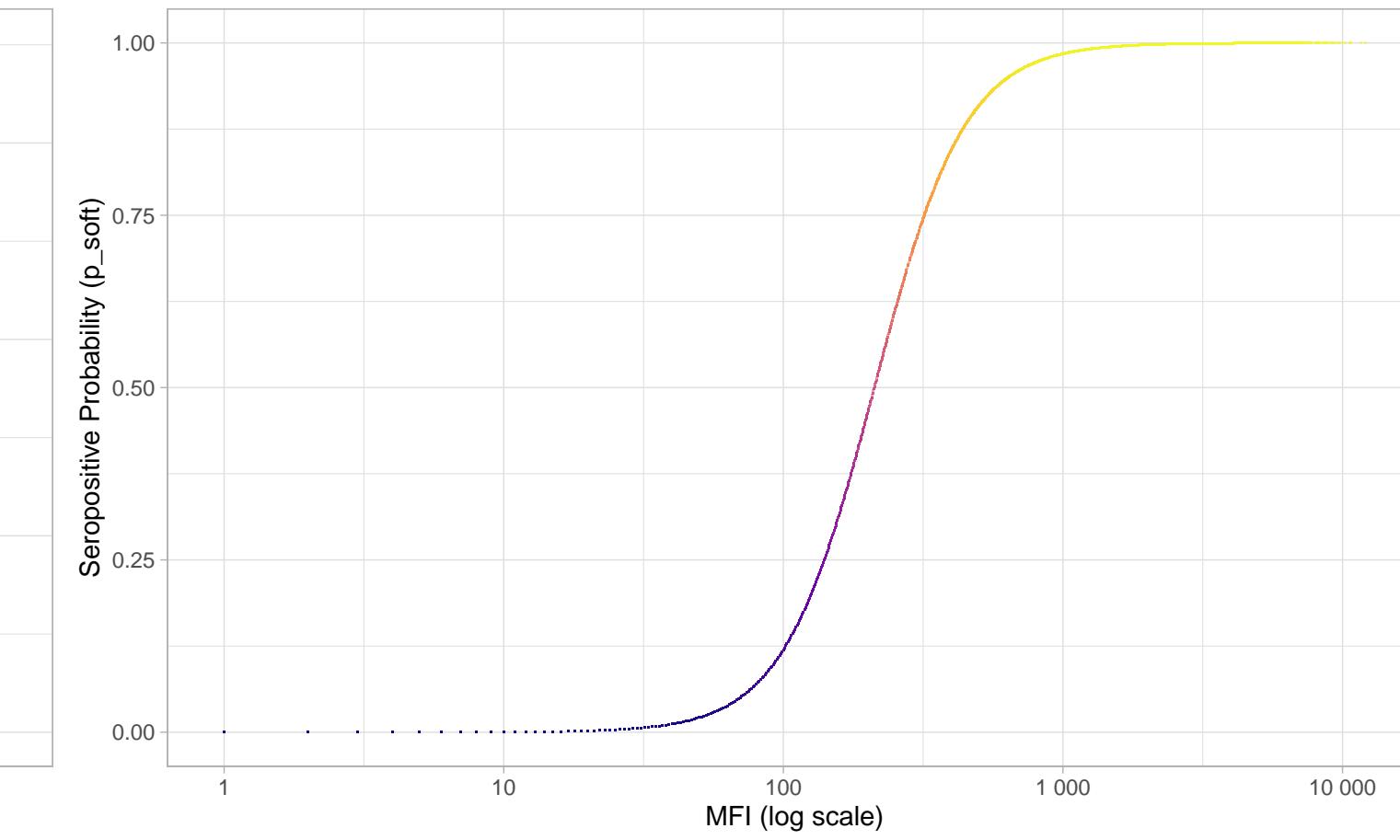
N=9424 | >0.95=1713 | <0.05=5447 | Ambig=2264

MFI Distribution: hp_omp

BL Hard Threshold = 170

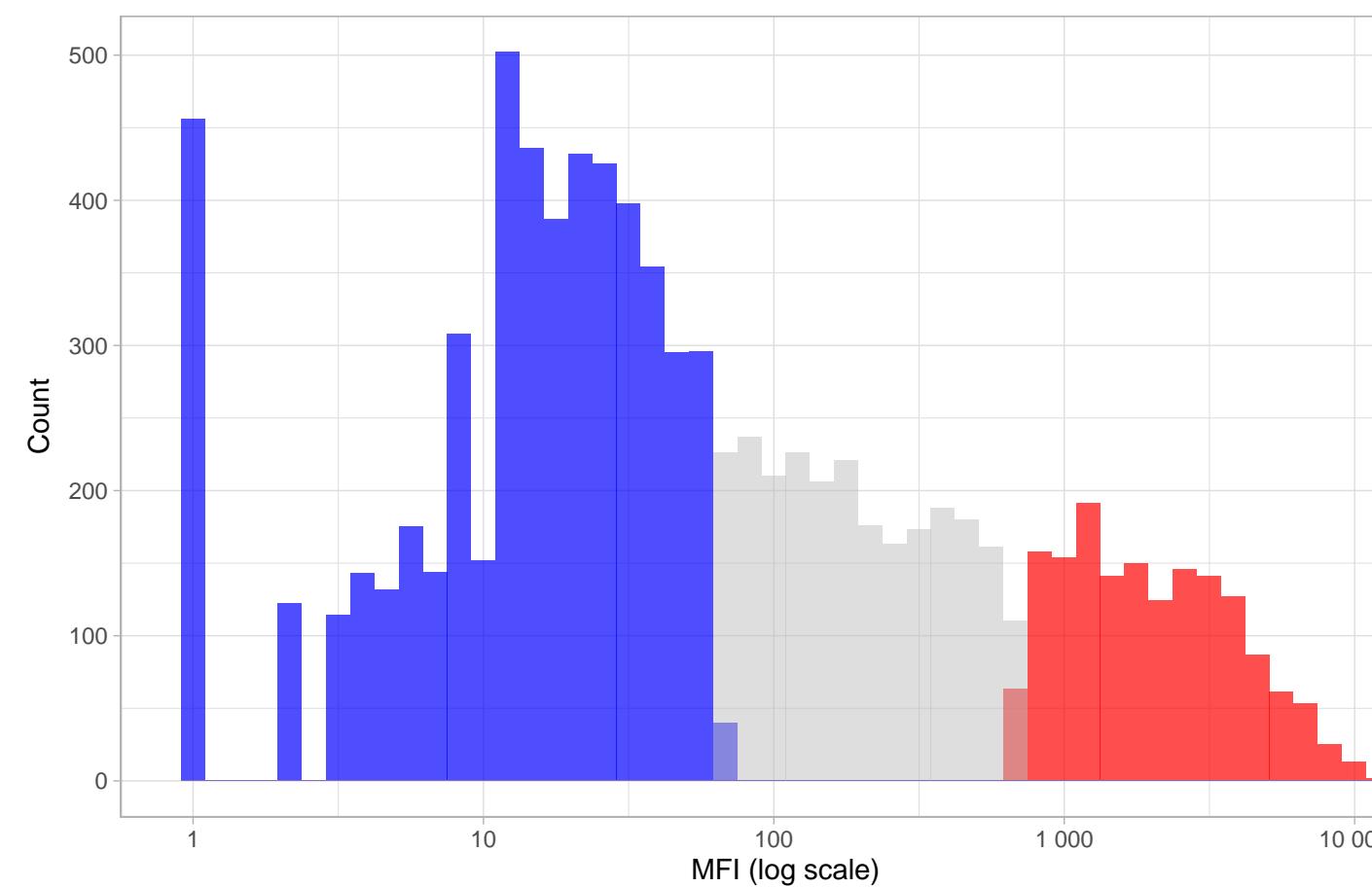


IgG vs Seropositive Probability: hp_omp



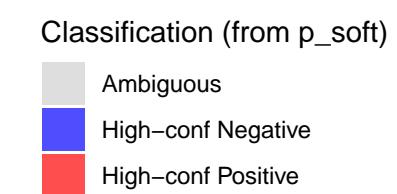
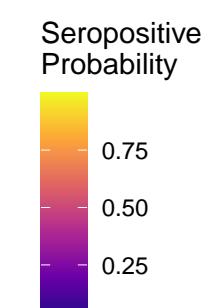
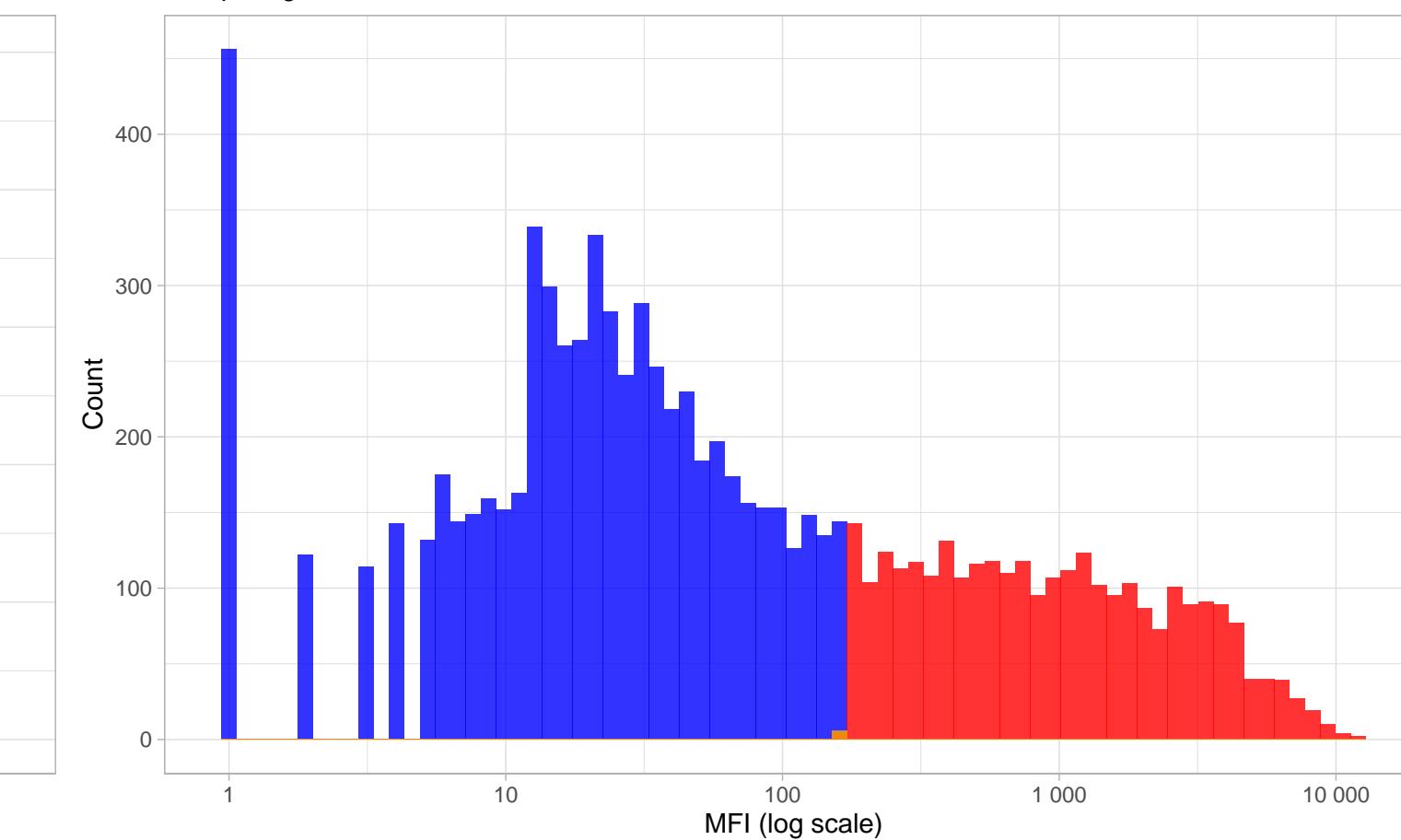
Distribution by Confidence: hp_omp

Prob threshold = 0.96

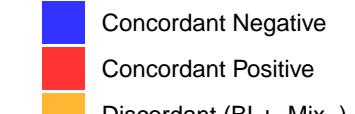


Phenotype Distribution by Classification: hp_omp

Comparing BL vs. Mixture-Model Hard Calls



Classification

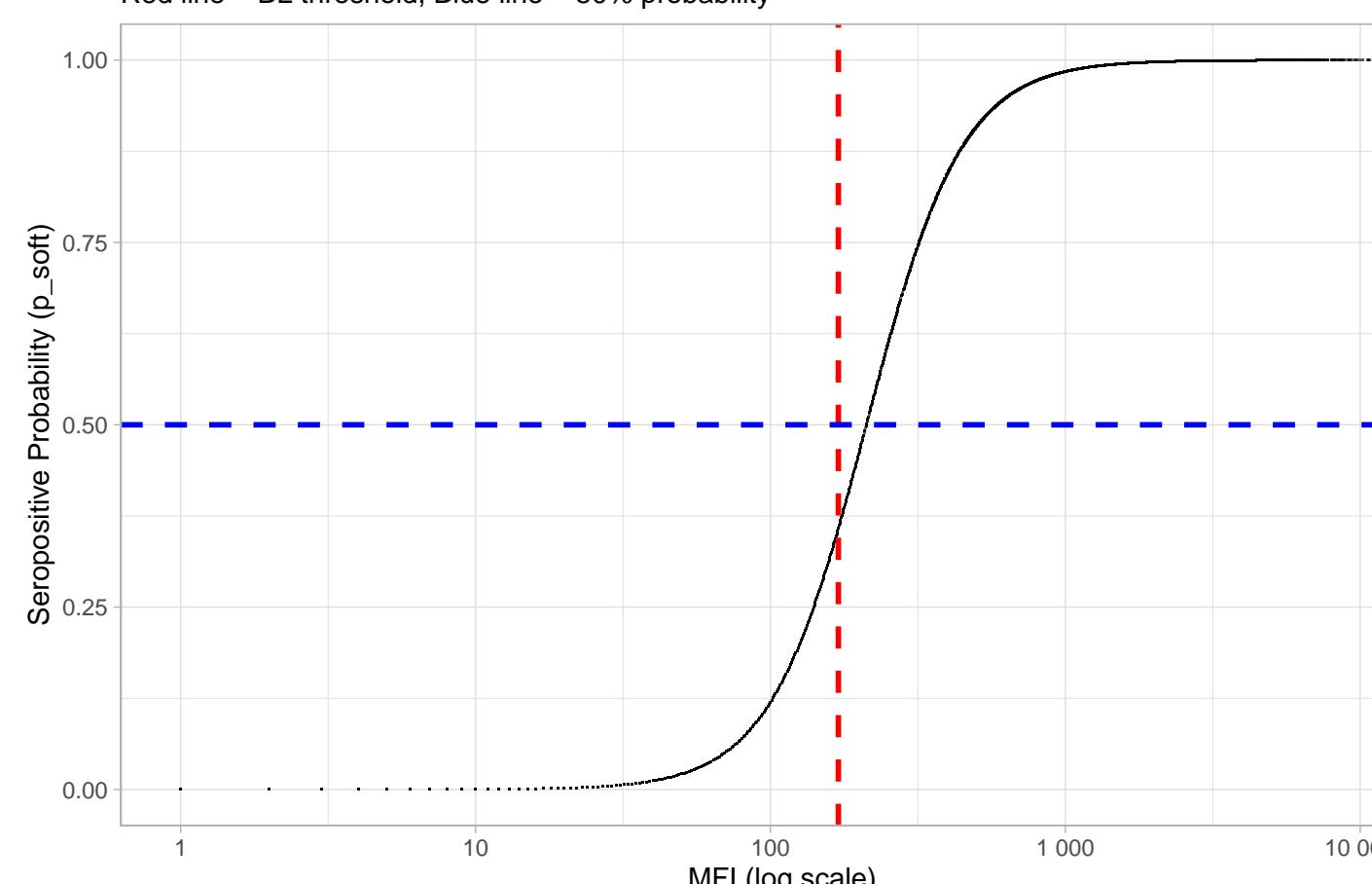


Hard Call Type



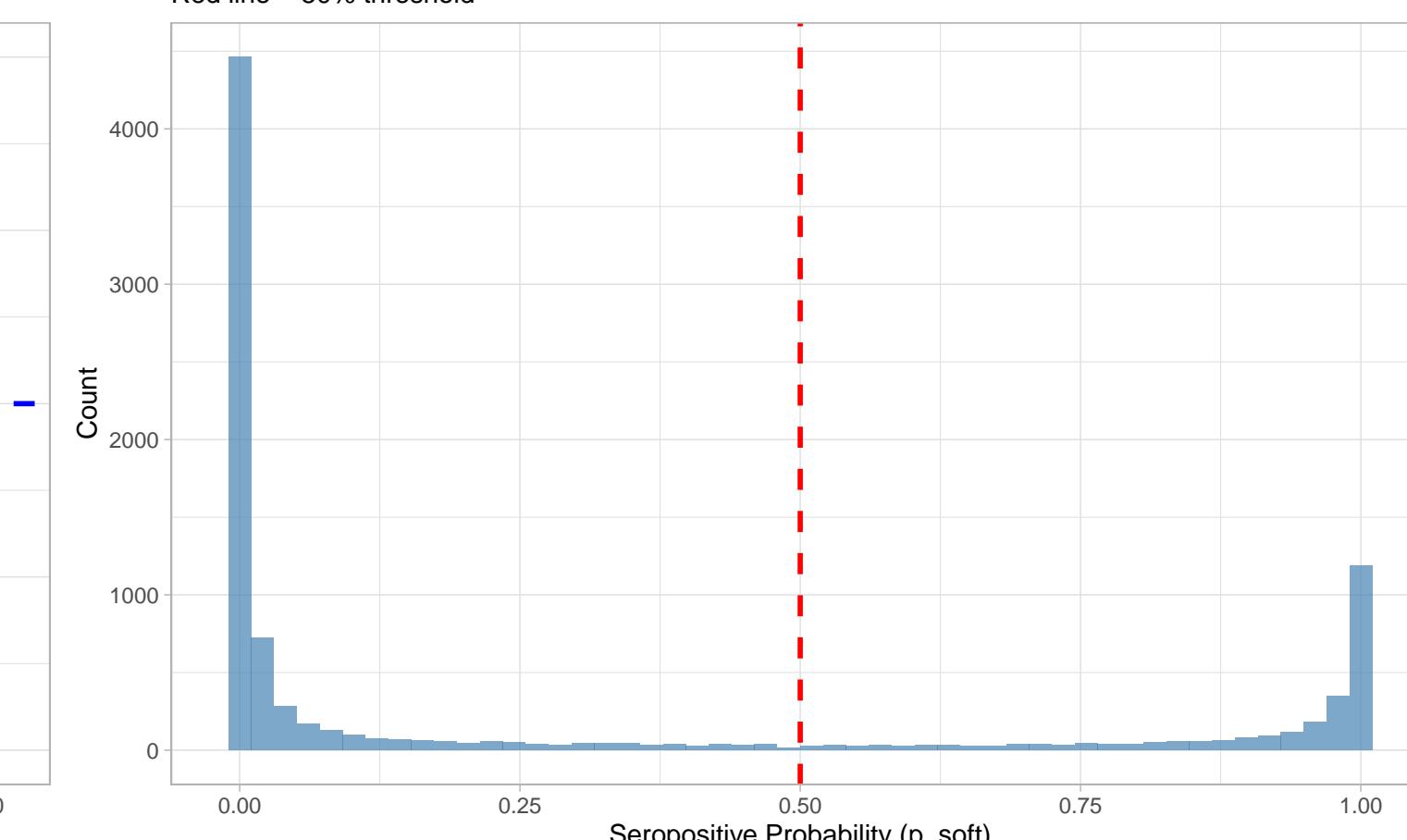
IgG Level vs. Seropositive Probability: hp_omp

Red line = BL threshold, Blue line = 50% probability



Distribution of Seropositive Probabilities: hp_omp

Red line = 50% threshold



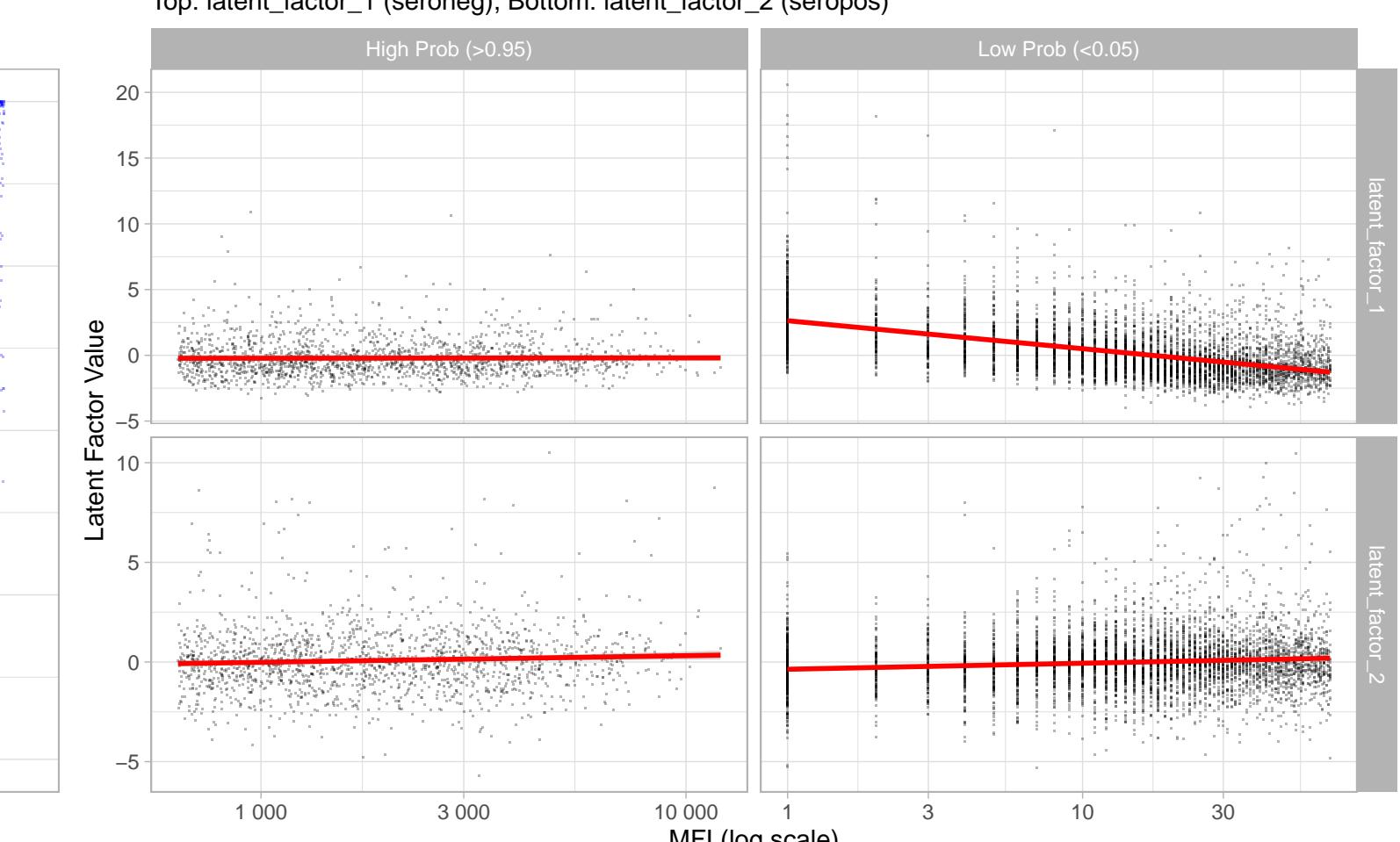
Hard Calls vs. Soft Probability: hp_omp

Comparing BL and Mixture-Model hard calls against p_soft



Latent Factor Components vs IgG Level: hp_omp

Top: latent_factor_1 (seroneg), Bottom: latent_factor_2 (seropos)

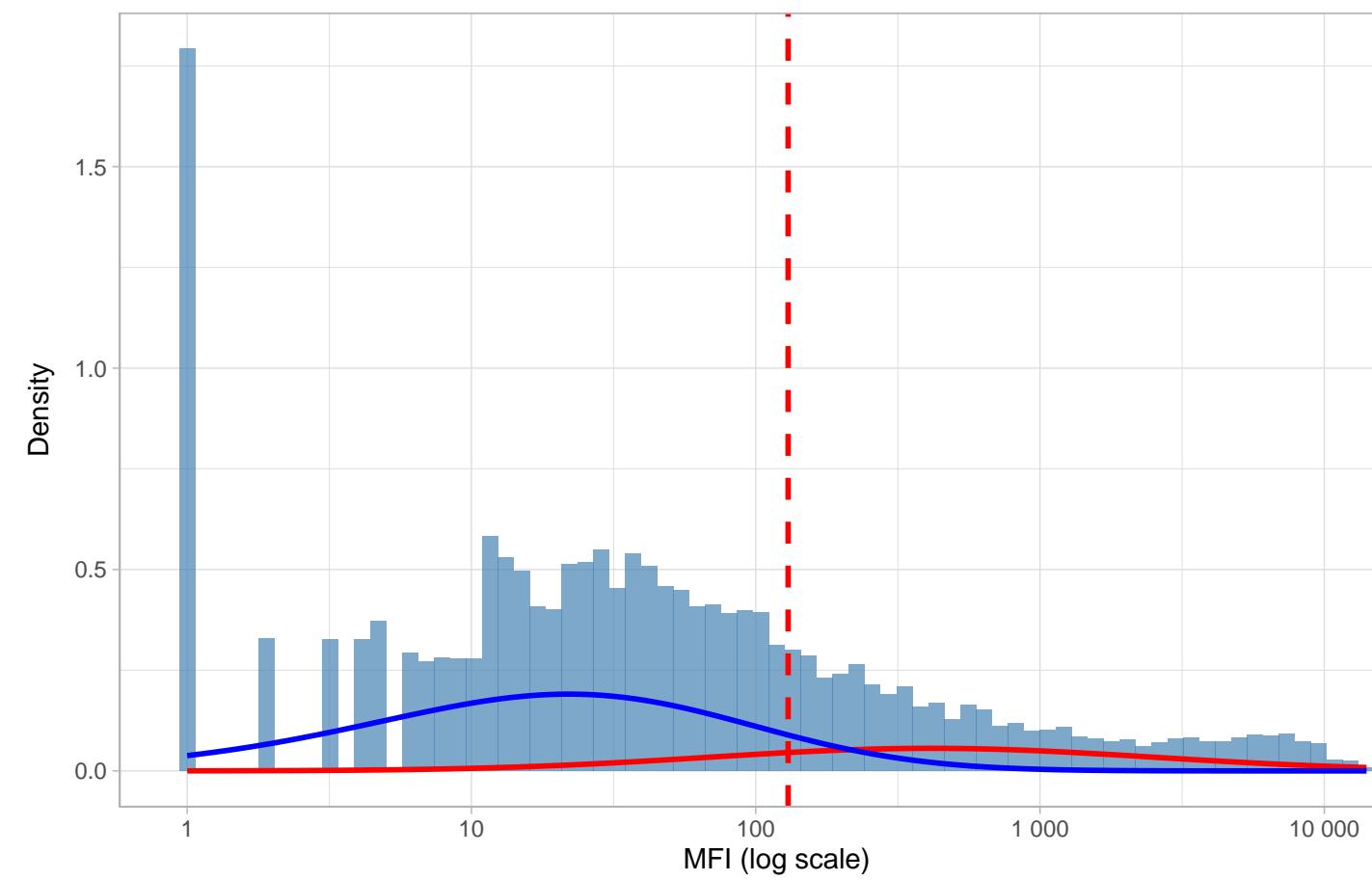


Comprehensive Diagnostics: hp_urea

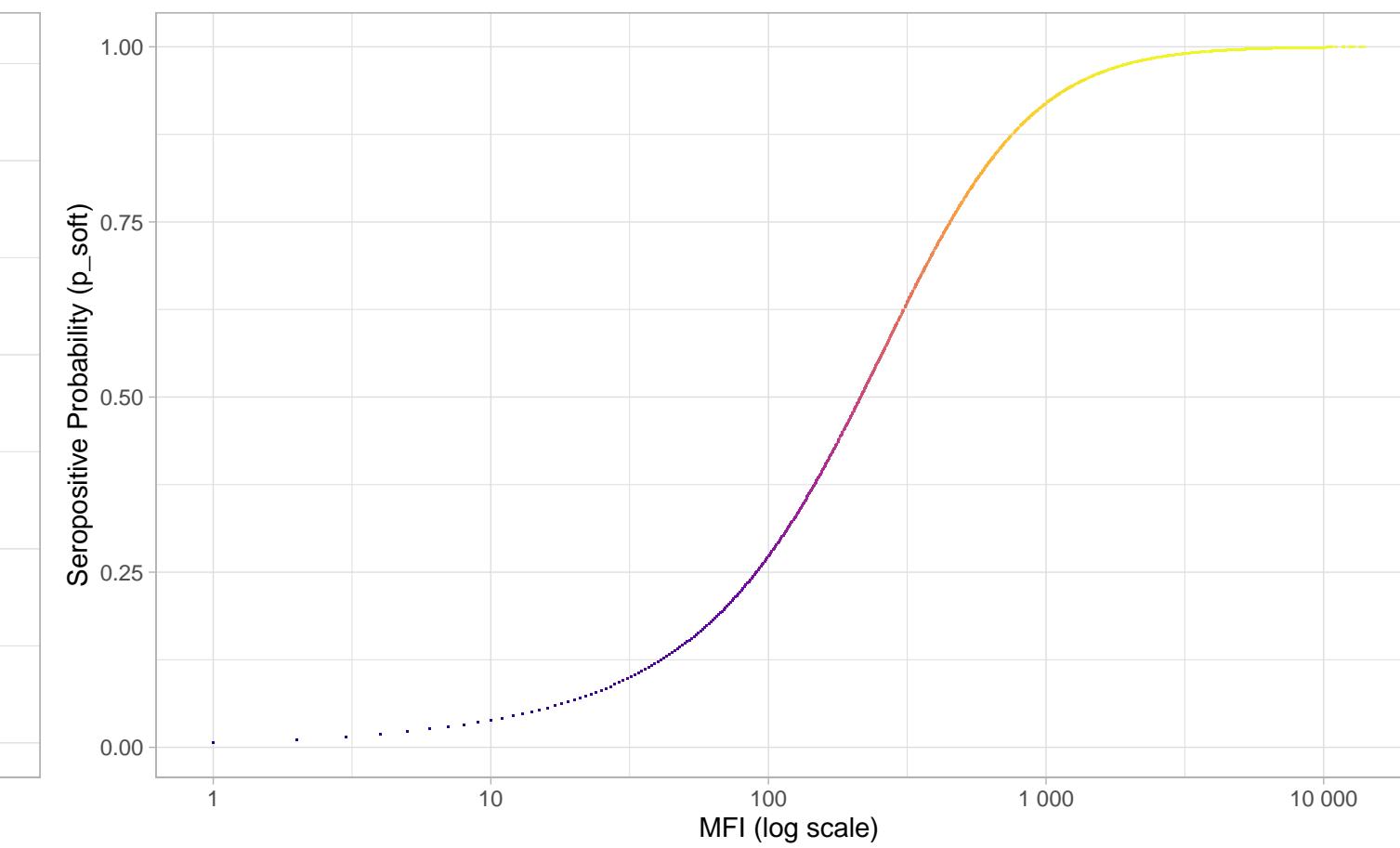
N=9424 | >0.95=682 | <0.05=2850 | Ambig=5892

MFI Distribution: hp_urea

BL Hard Threshold = 130

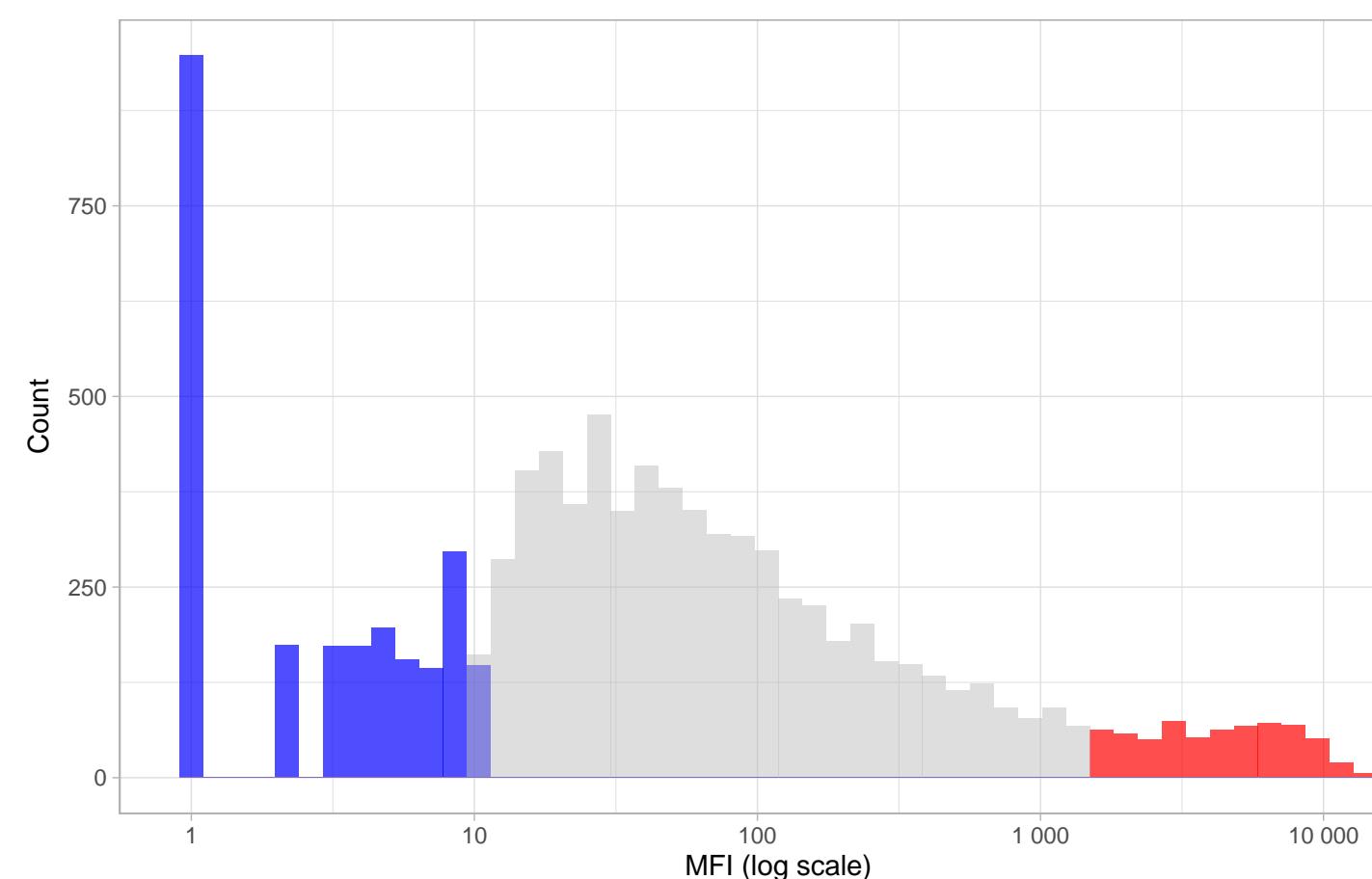


IgG vs Seropositive Probability: hp_urea



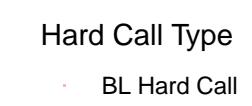
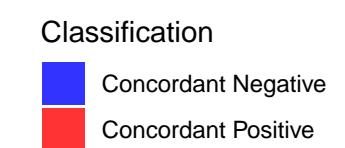
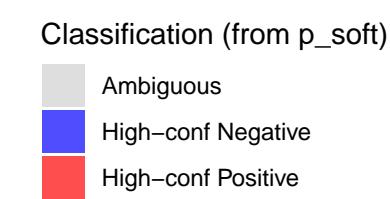
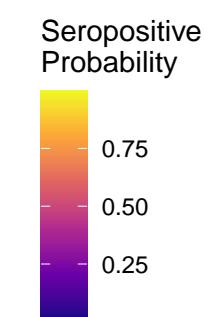
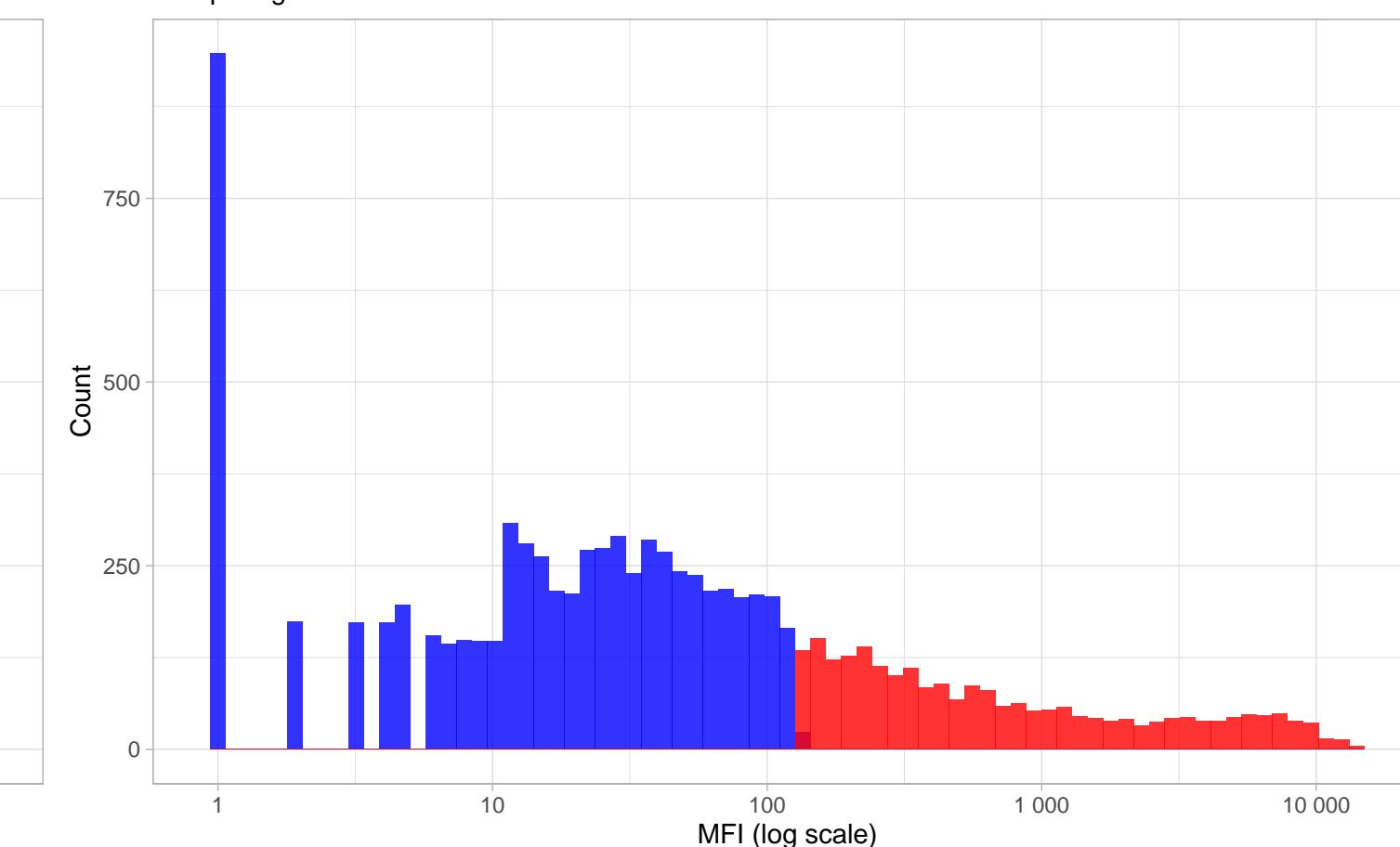
Distribution by Confidence: hp_urea

Prob threshold = 0.96



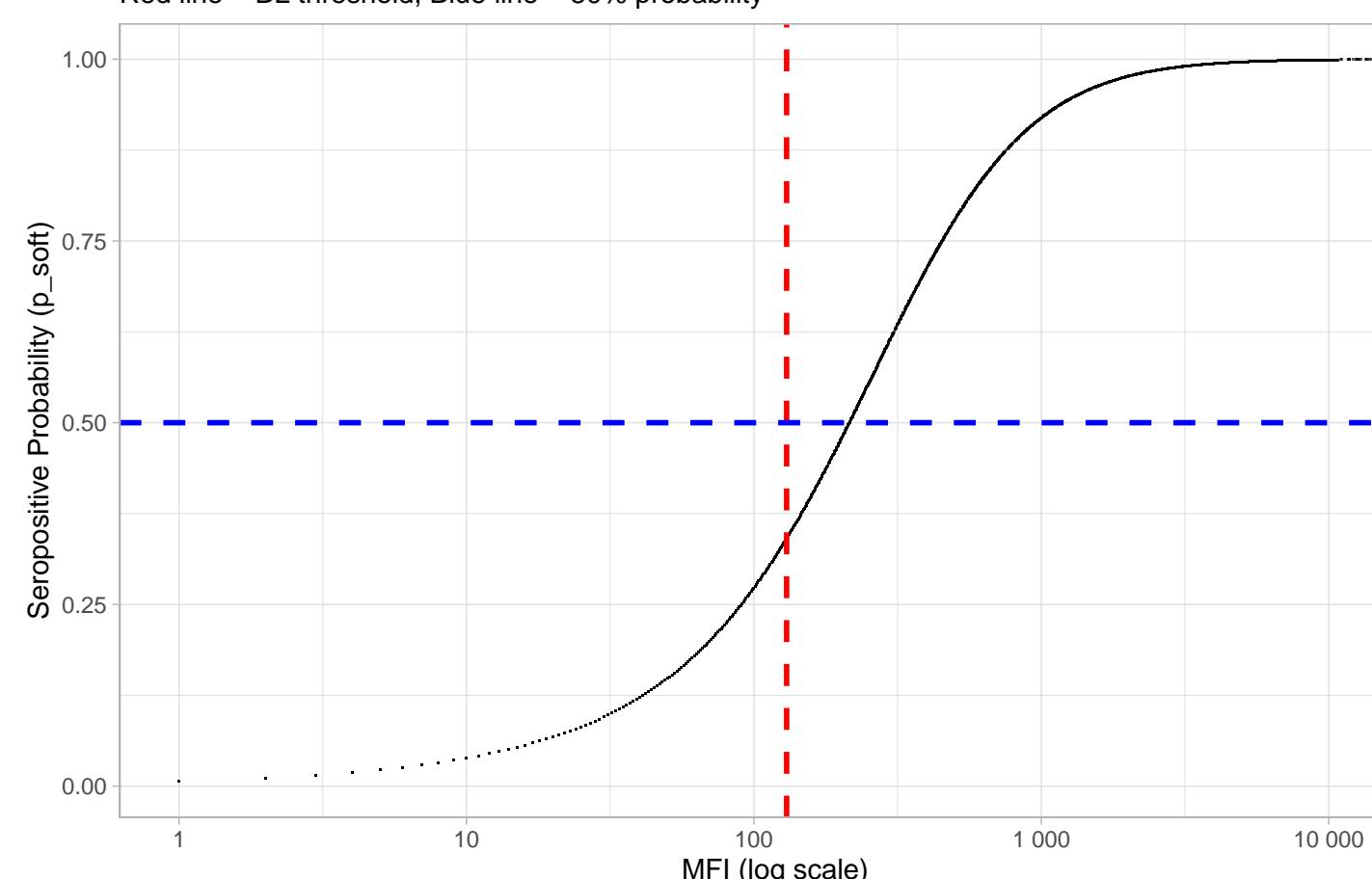
Phenotype Distribution by Classification: hp_urea

Comparing BL vs. Mixture-Model Hard Calls



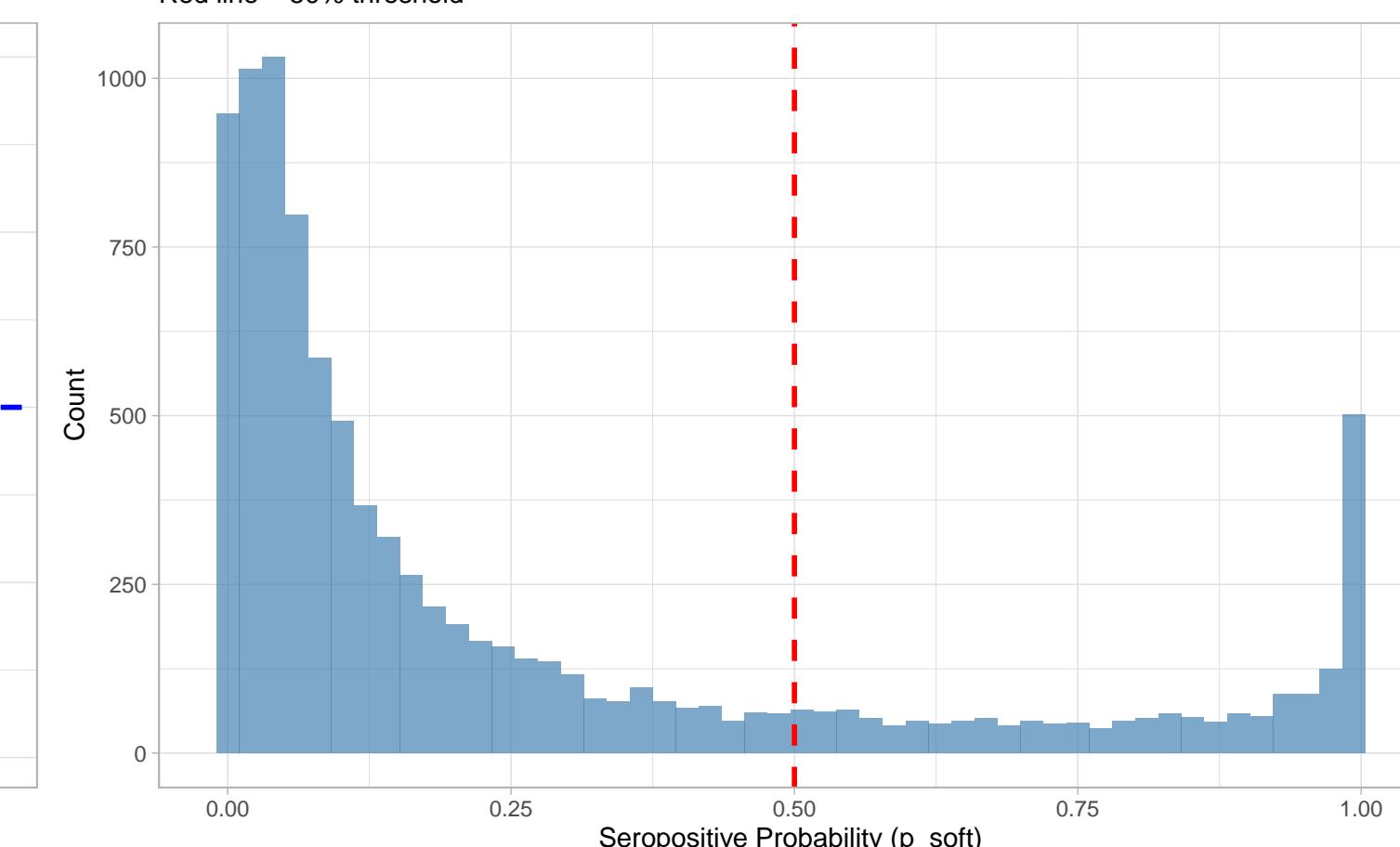
IgG Level vs. Seropositive Probability: hp_urea

Red line = BL threshold, Blue line = 50% probability



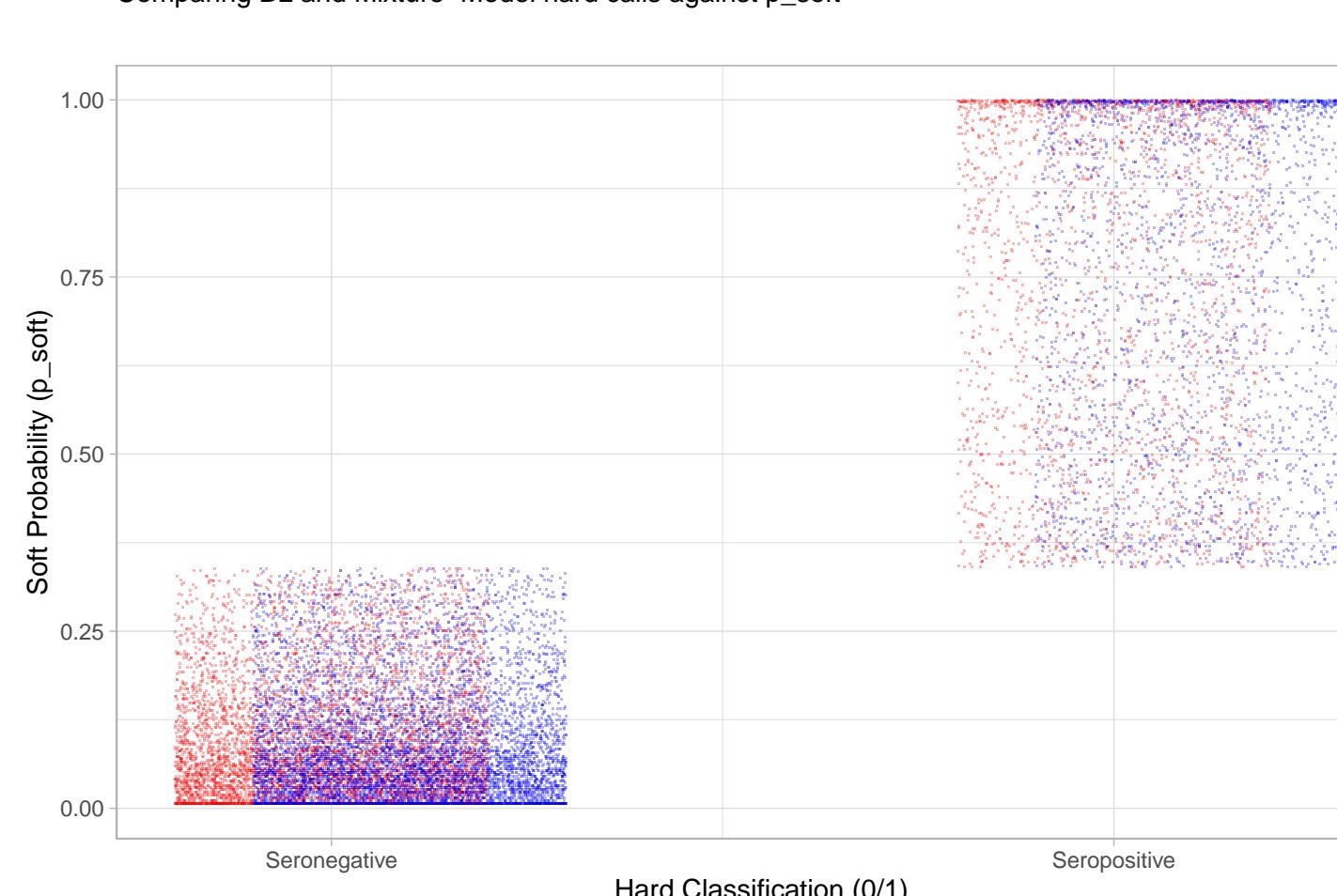
Distribution of Seropositive Probabilities: hp_urea

Red line = 50% threshold



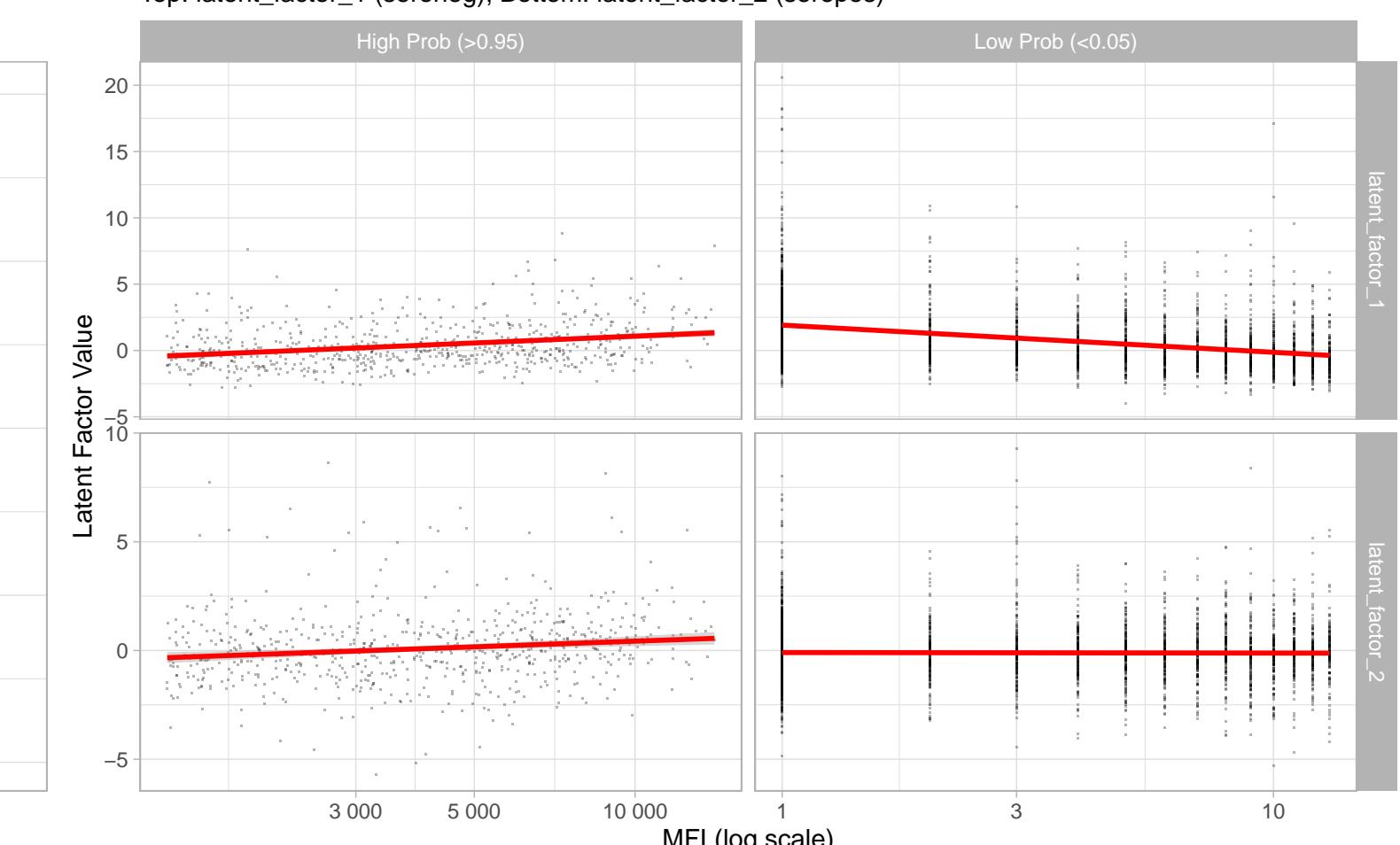
Hard Calls vs. Soft Probability: hp_urea

Comparing BL and Mixture-Model hard calls against p_soft



Latent Factor Components vs IgG Level: hp_urea

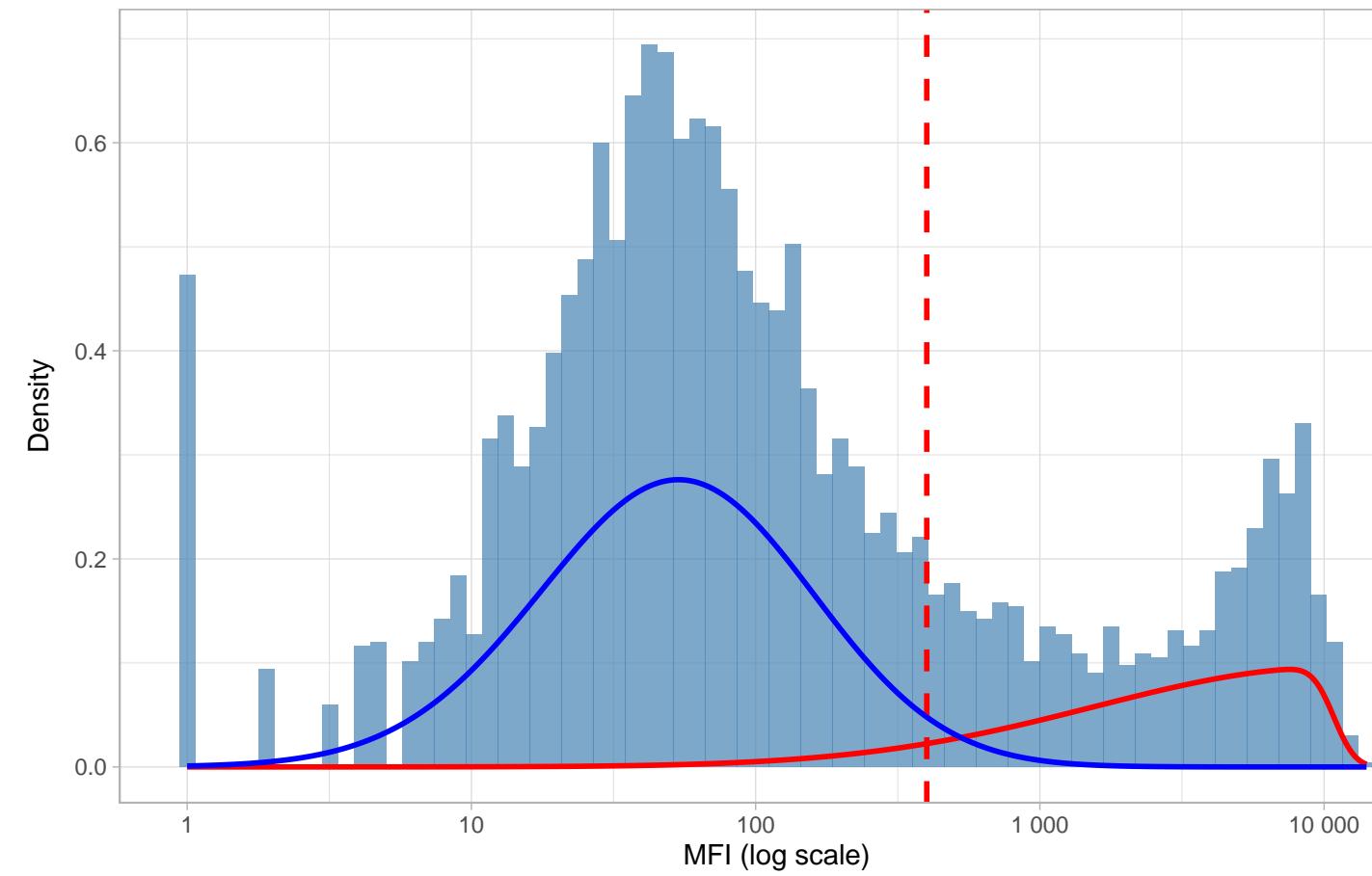
Top: latent_factor_1 (seroneg), Bottom: latent_factor_2 (seropos)



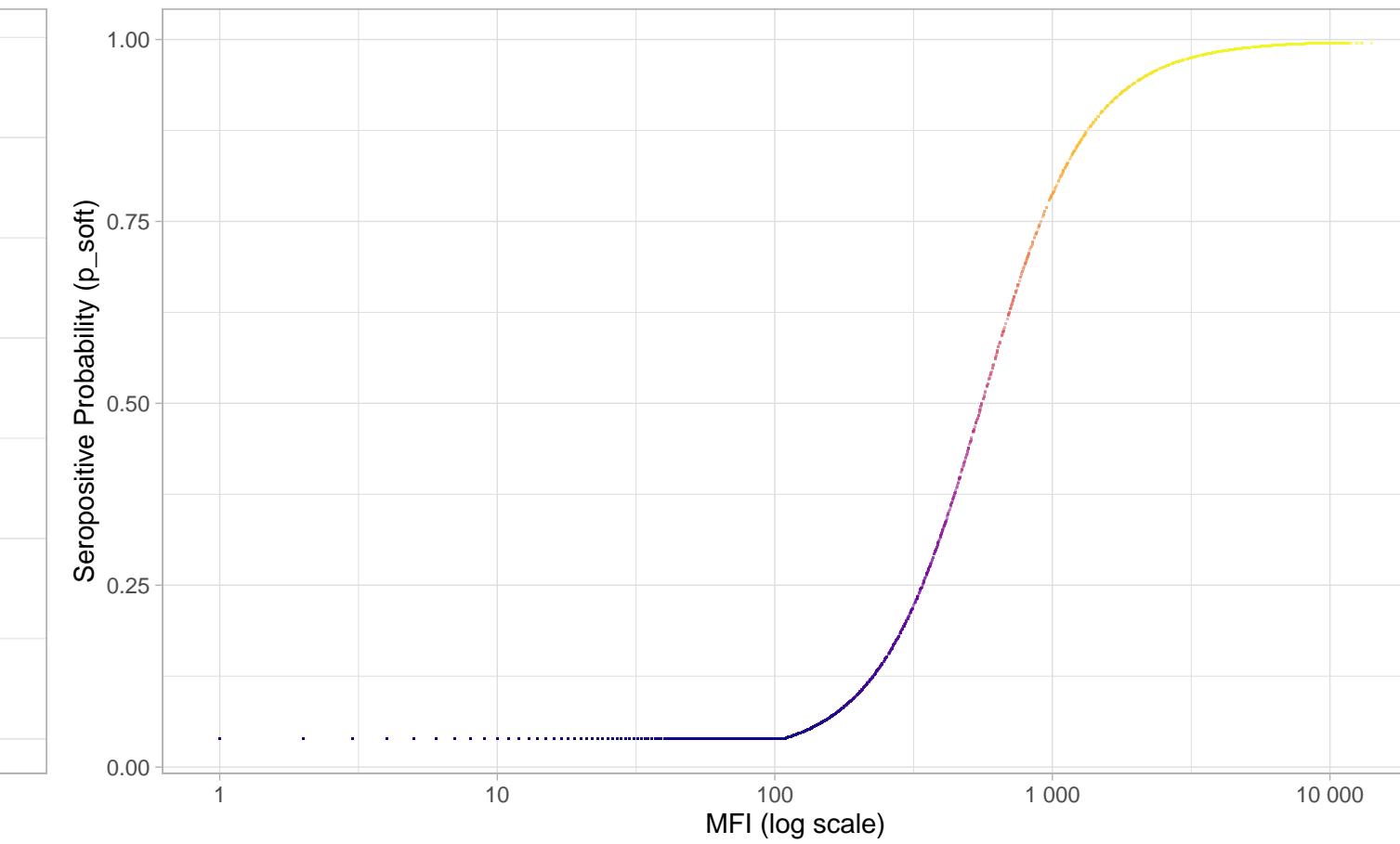
Comprehensive Diagnostics: hp_caga

N=4754 | >0.95=642 | <0.05=2955 | Ambig=1157

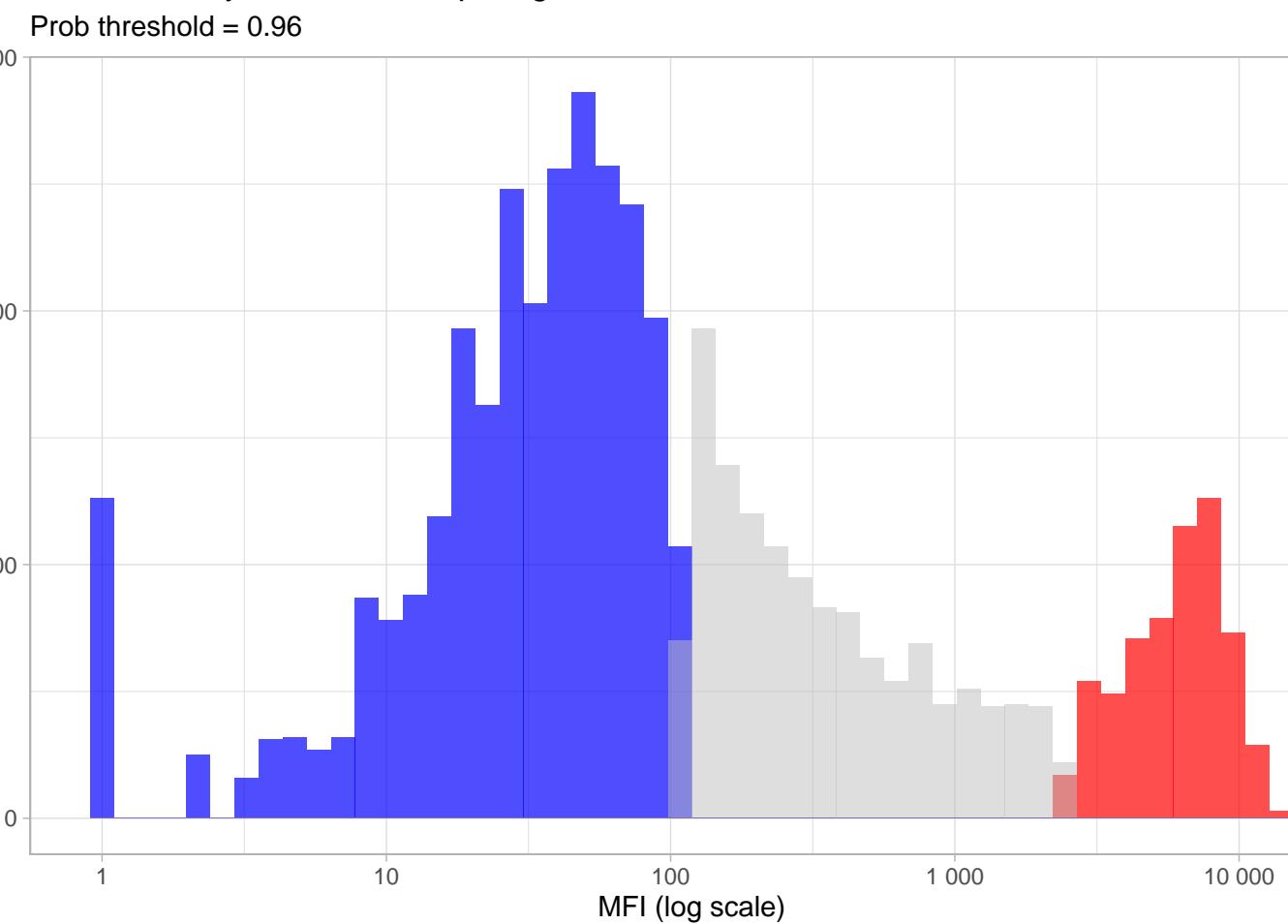
MFI Distribution: hp_caga
BL Hard Threshold = 400



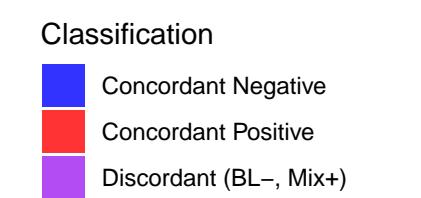
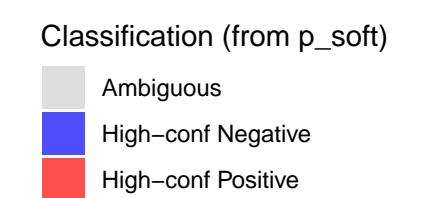
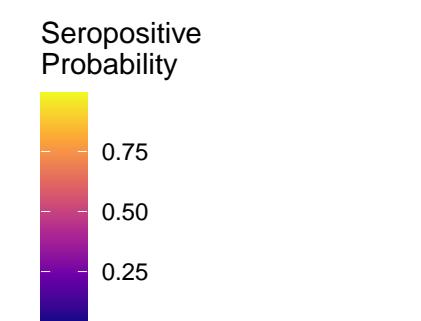
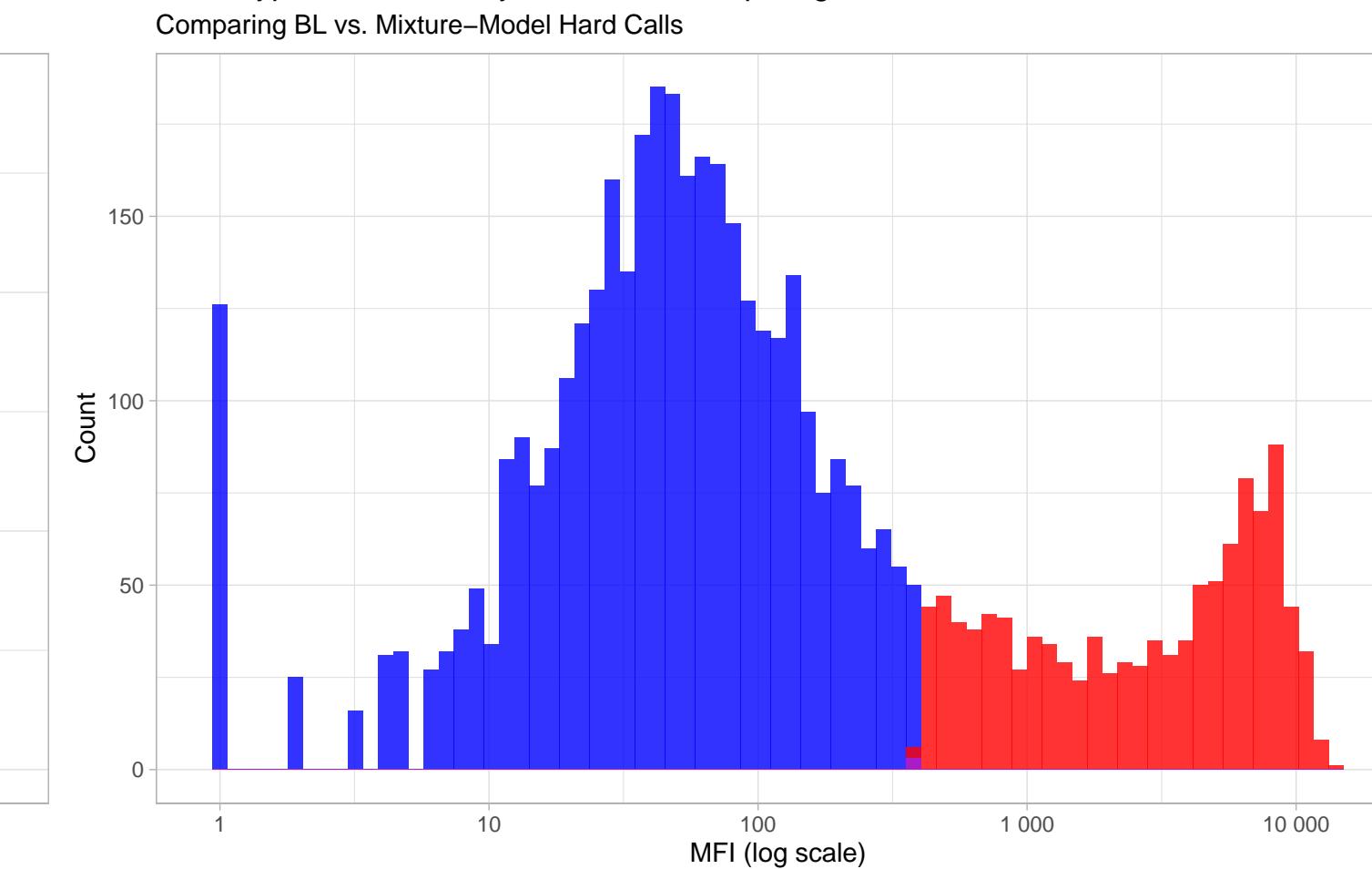
IgG vs Seropositive Probability: hp_caga



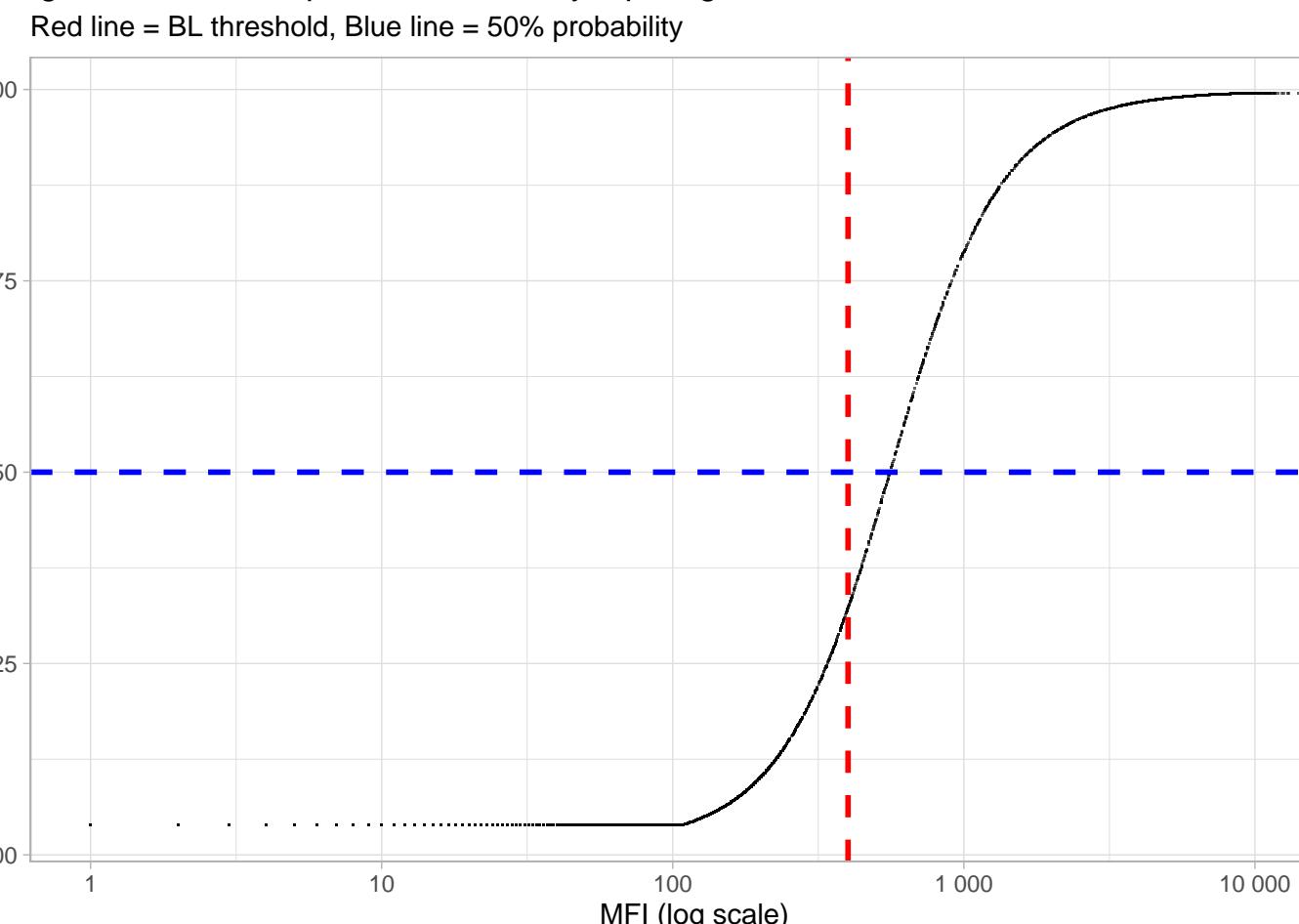
Distribution by Confidence: hp_caga



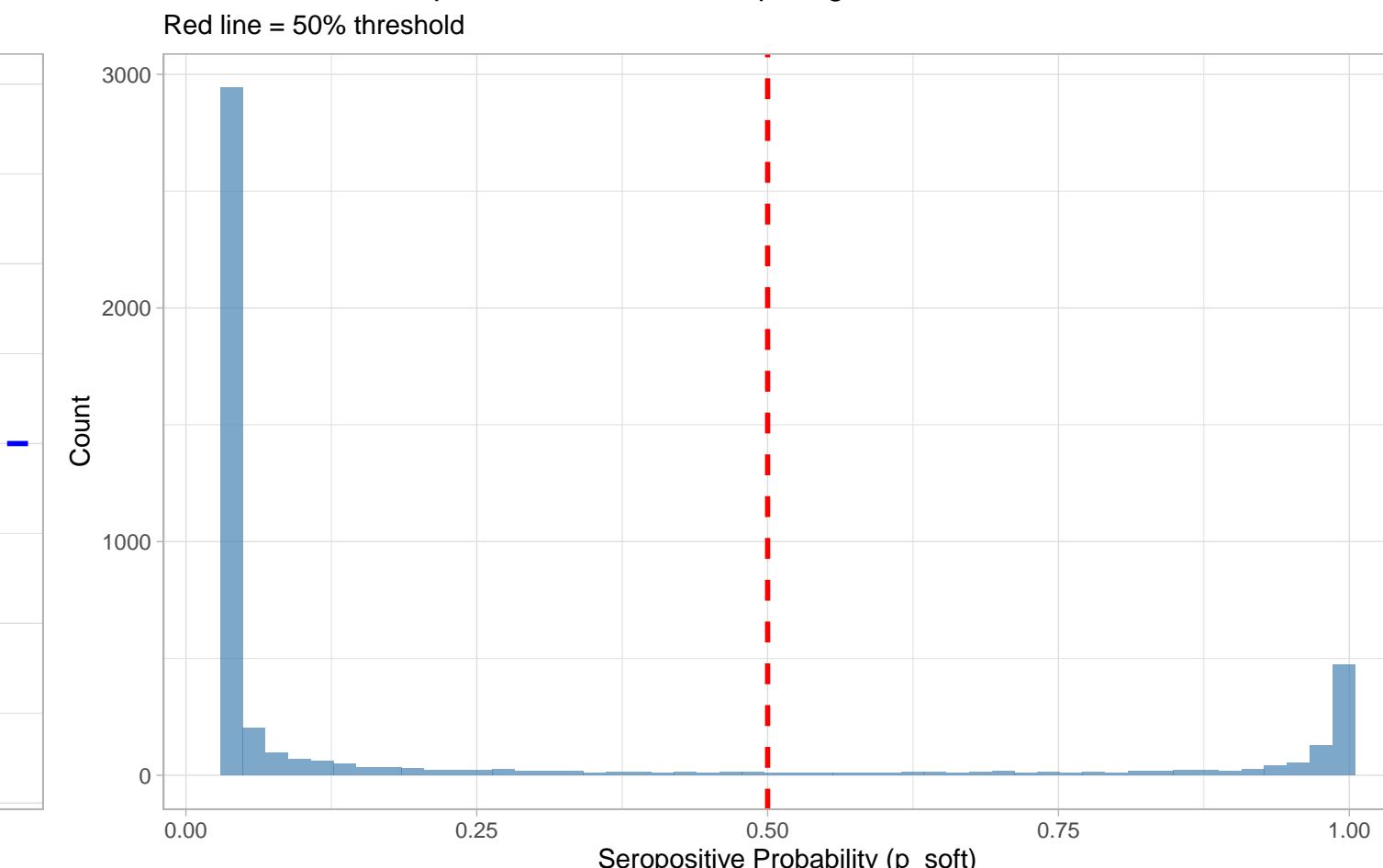
Phenotype Distribution by Classification: hp_caga



IgG Level vs. Seropositive Probability: hp_caga



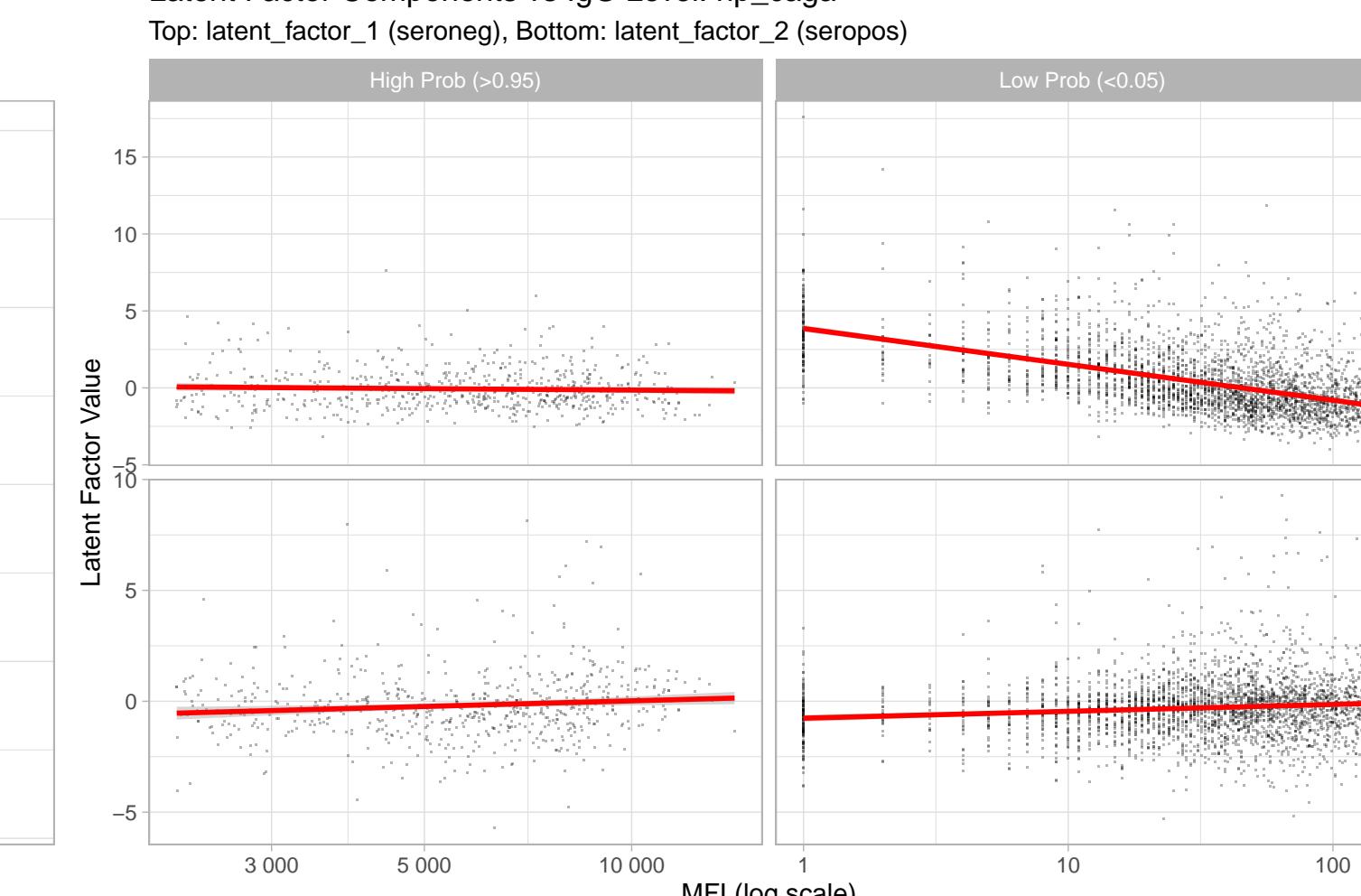
Distribution of Seropositive Probabilities: hp_caga



Hard Calls vs. Soft Probability: hp_caga



Latent Factor Components vs IgG Level: hp_caga

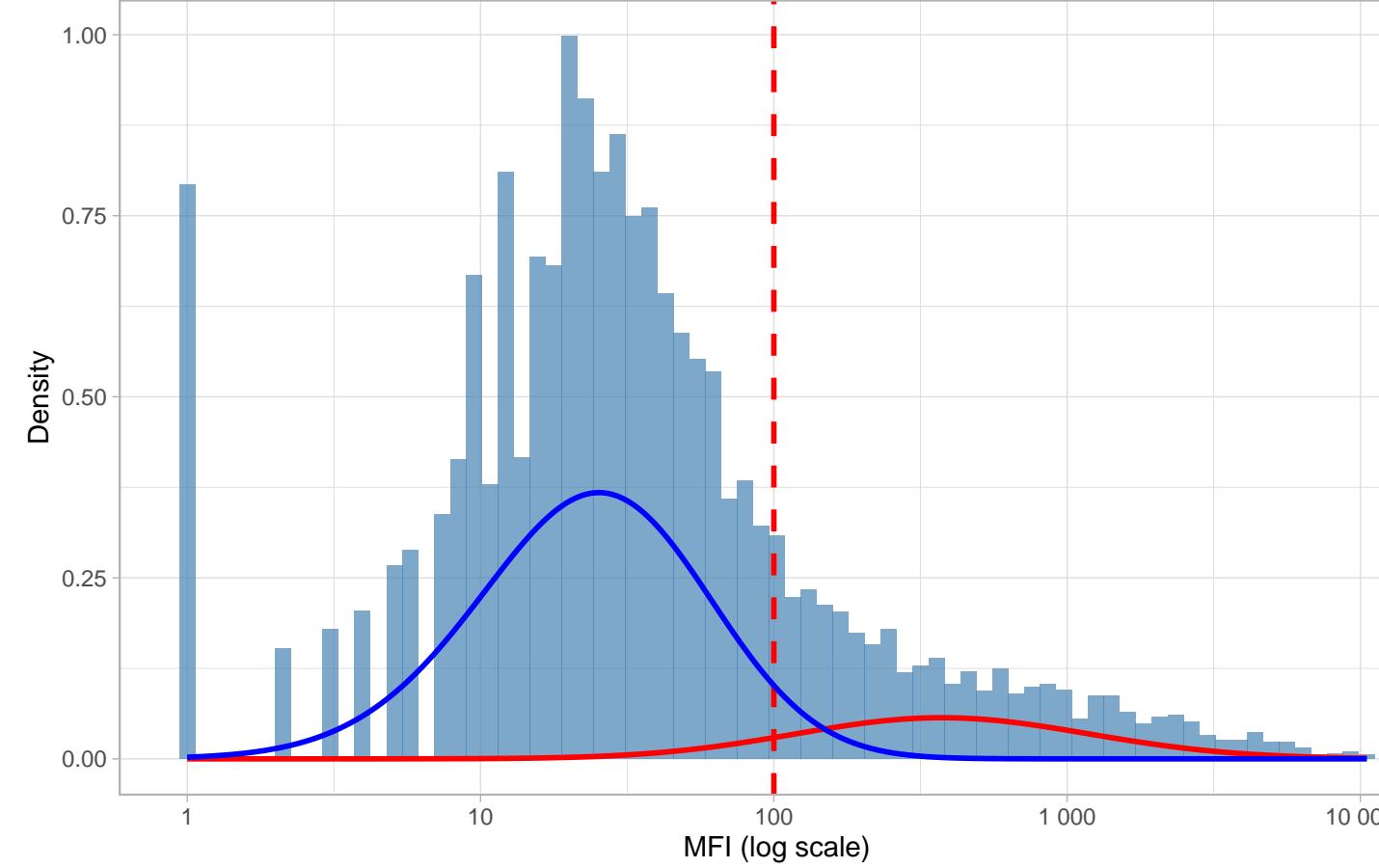


Comprehensive Diagnostics: hp_vaca

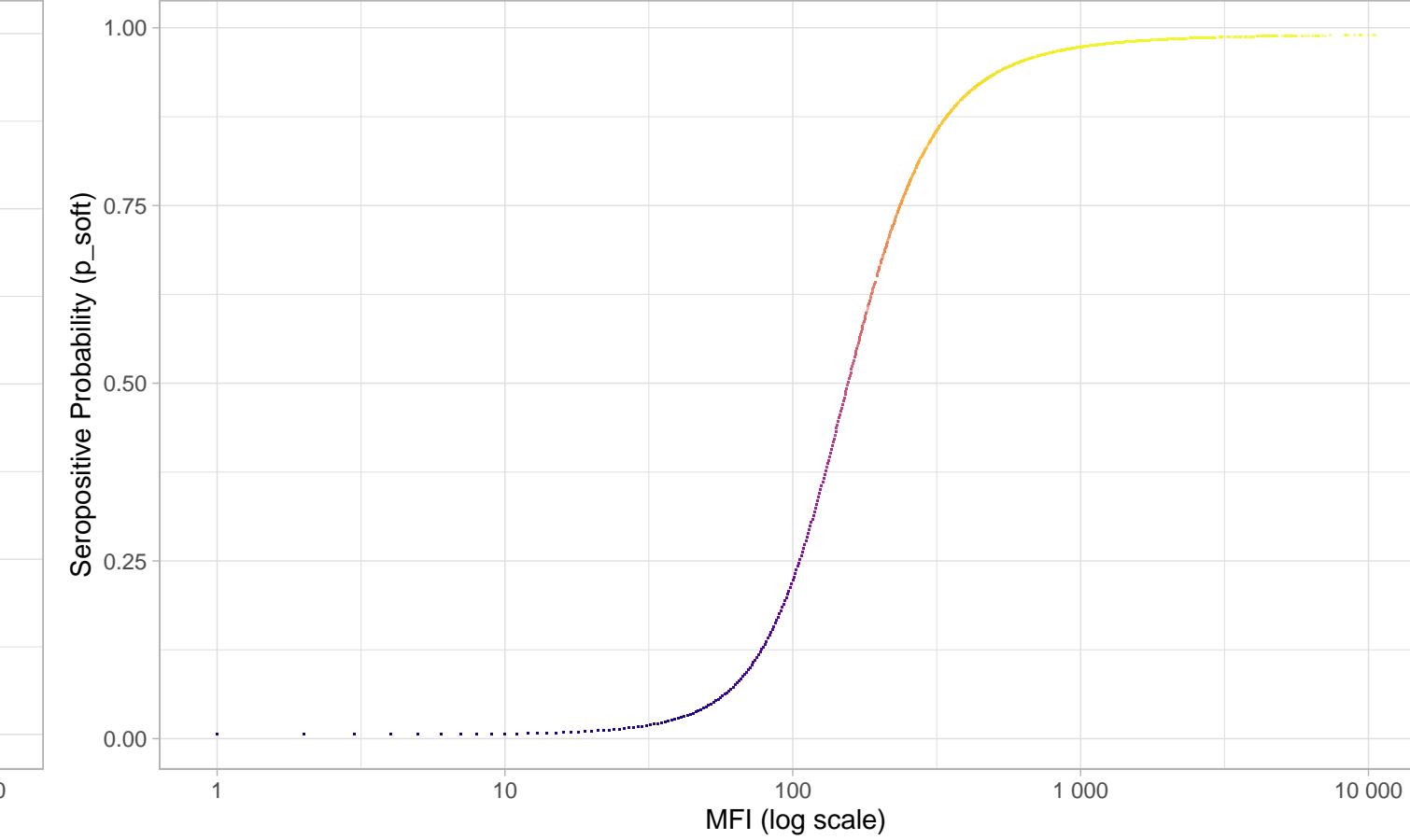
N=9424 | >0.95=601 | <0.05=6501 | Ambig=2322

MFI Distribution: hp_vaca

BL Hard Threshold = 100

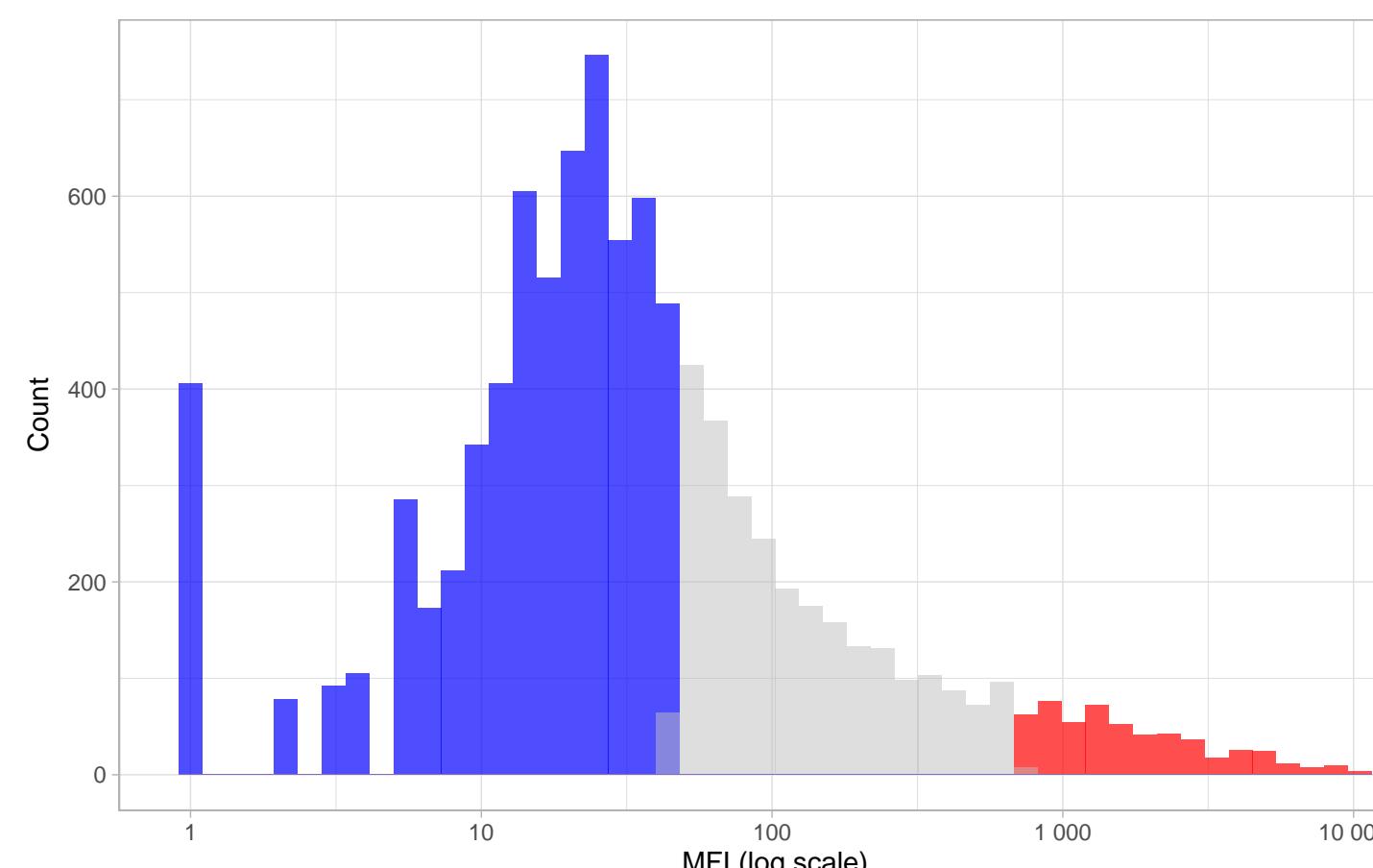


IgG vs Seropositive Probability: hp_vaca



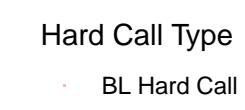
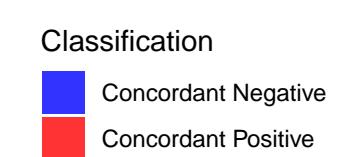
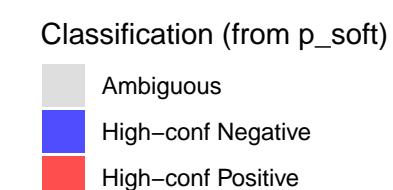
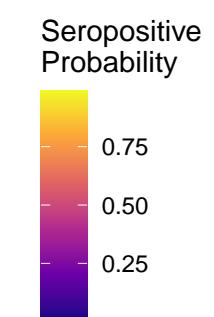
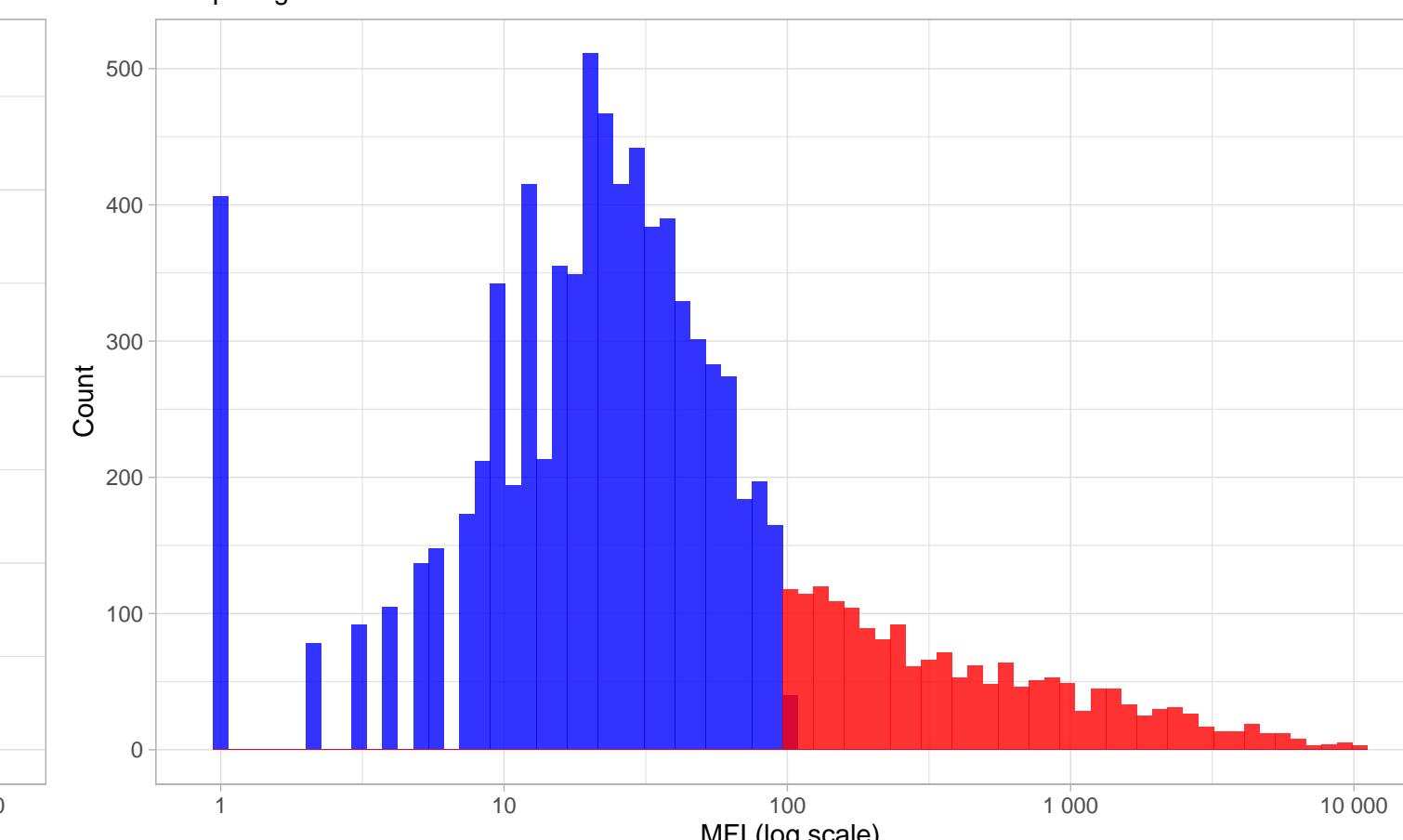
Distribution by Confidence: hp_vaca

Prob threshold = 0.96



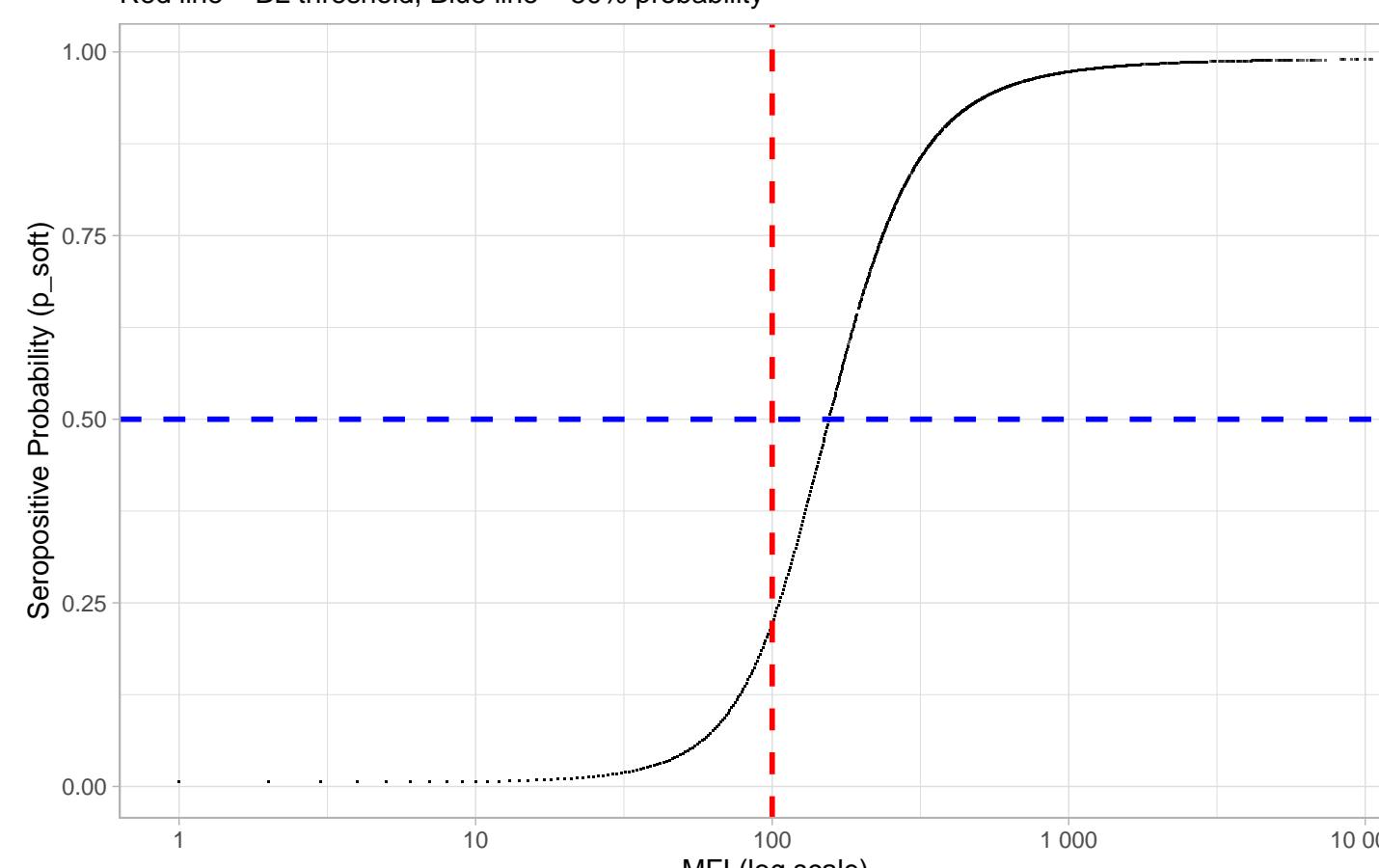
Phenotype Distribution by Classification: hp_vaca

Comparing BL vs. Mixture-Model Hard Calls



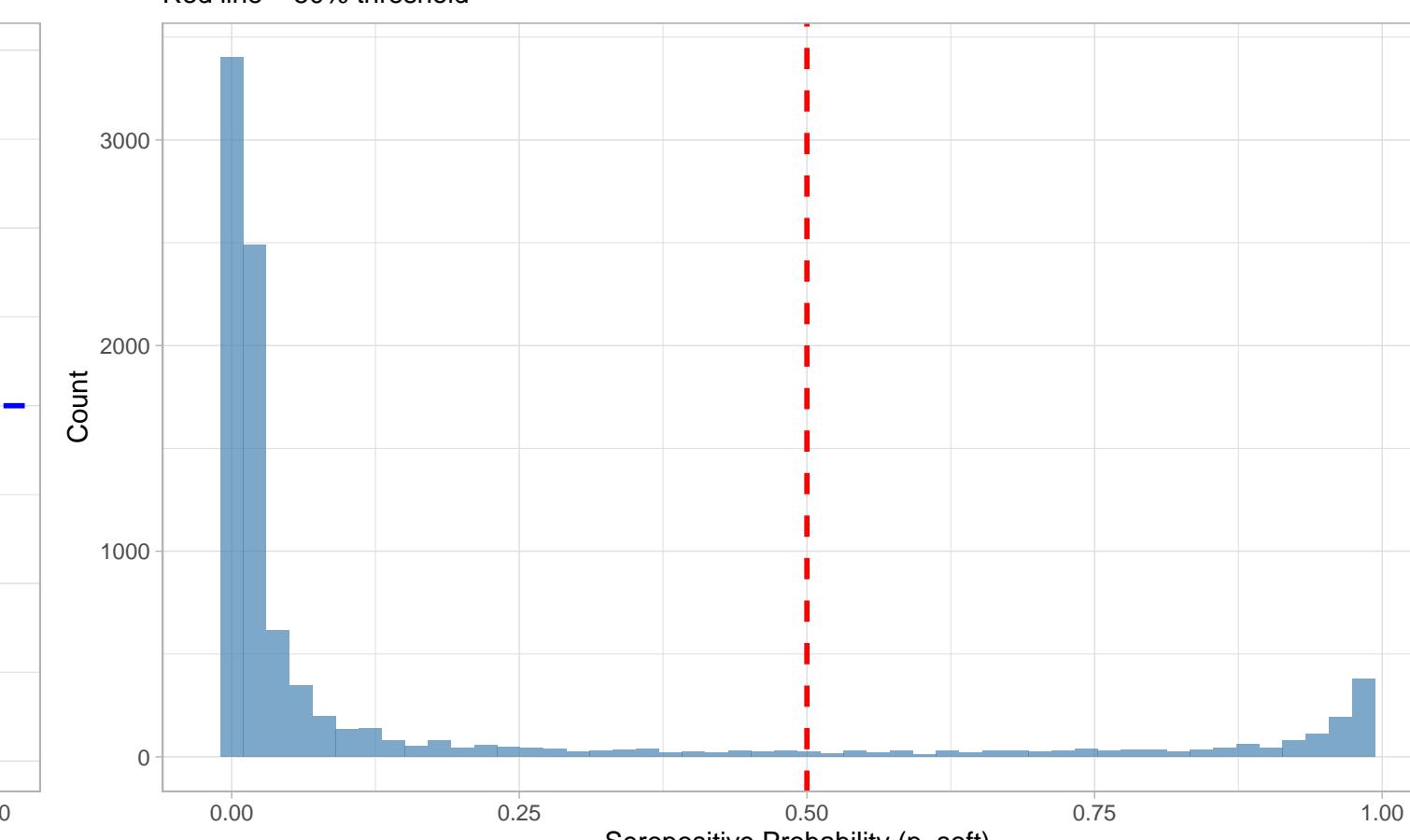
IgG Level vs. Seropositive Probability: hp_vaca

Red line = BL threshold, Blue line = 50% probability



Distribution of Seropositive Probabilities: hp_vaca

Red line = 50% threshold



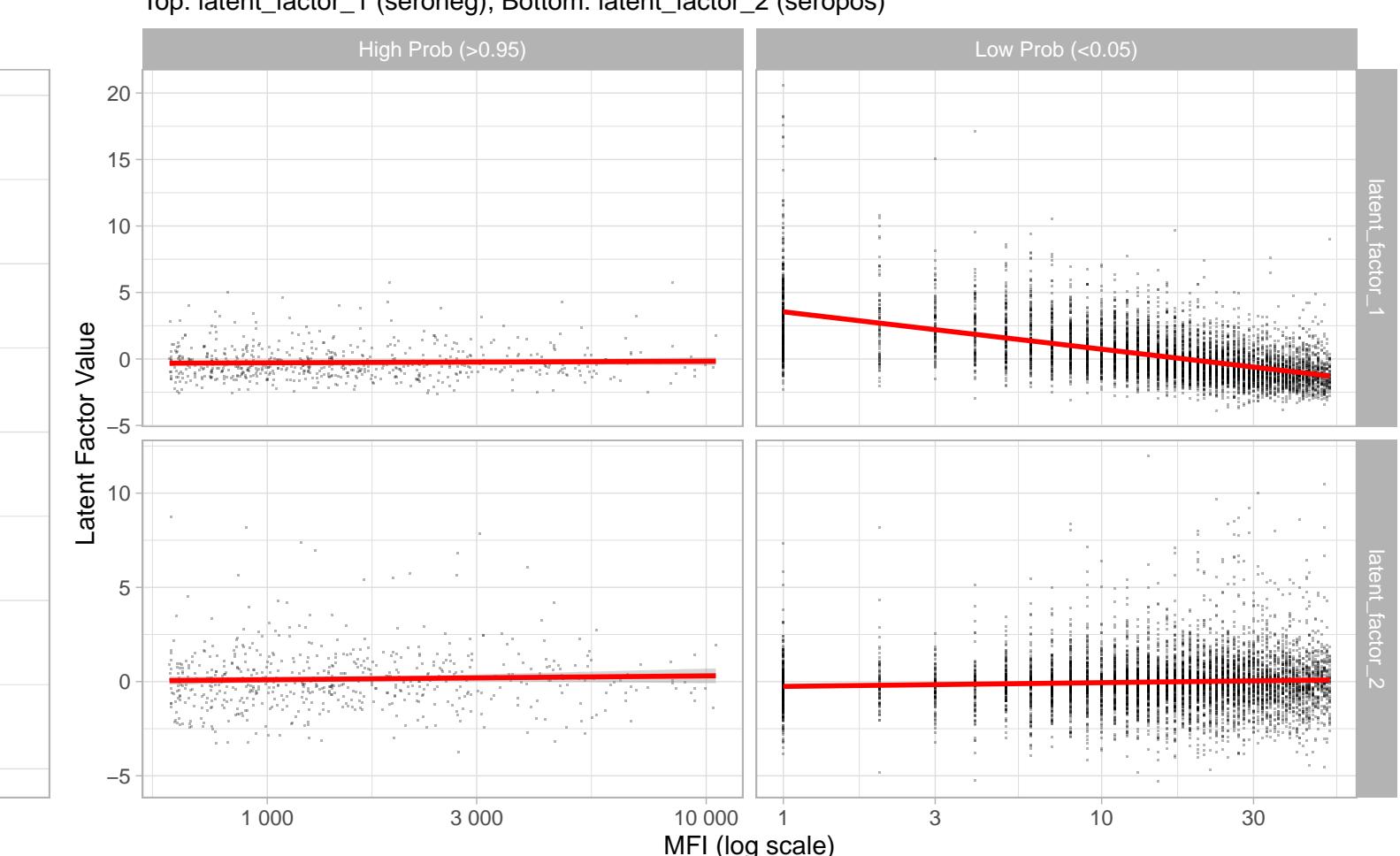
Hard Calls vs. Soft Probability: hp_vaca

Comparing BL and Mixture-Model hard calls against p_soft



Latent Factor Components vs IgG Level: hp_vaca

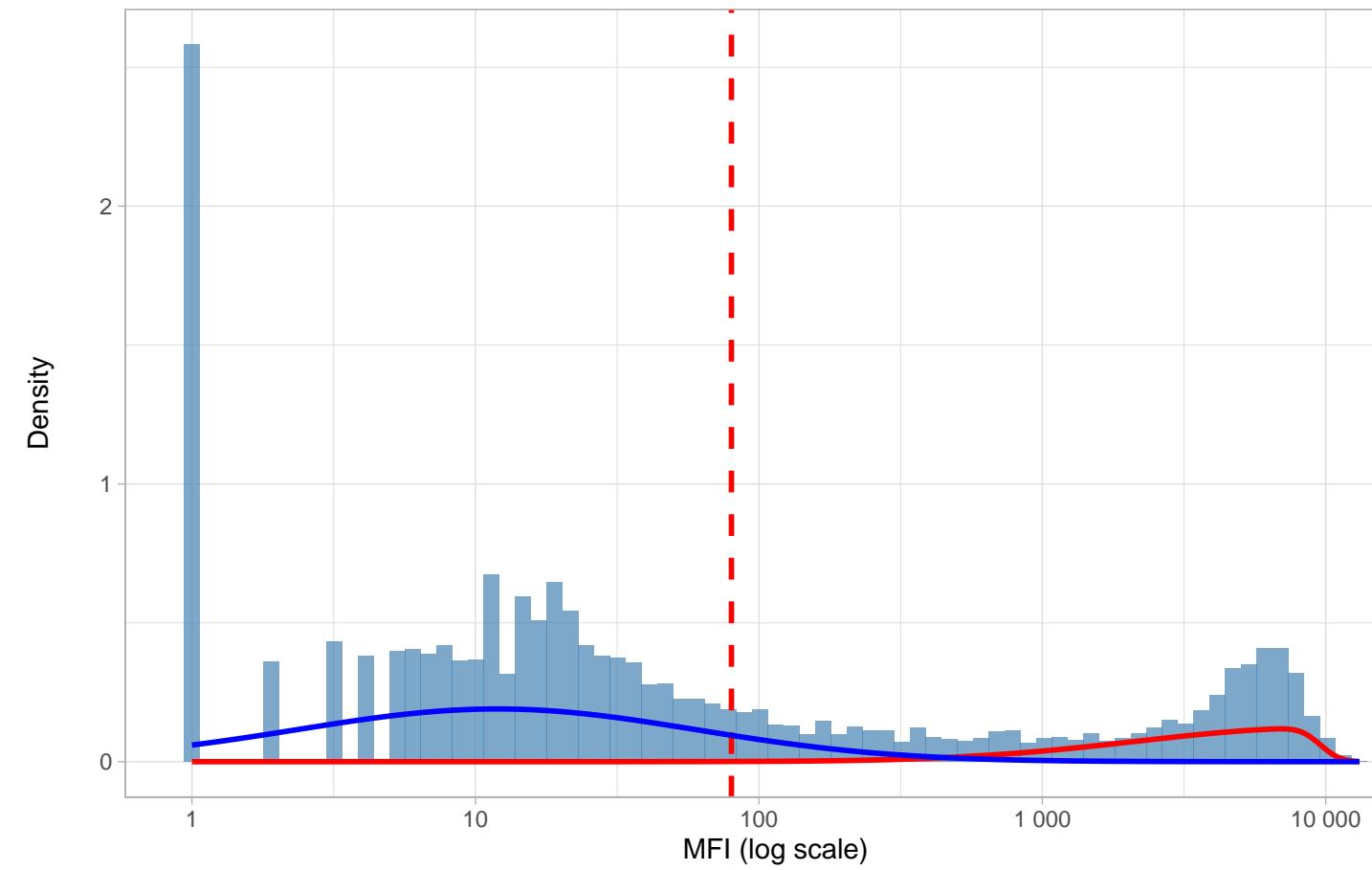
Top: latent_factor_1 (seroneg), Bottom: latent_factor_2 (seropos)



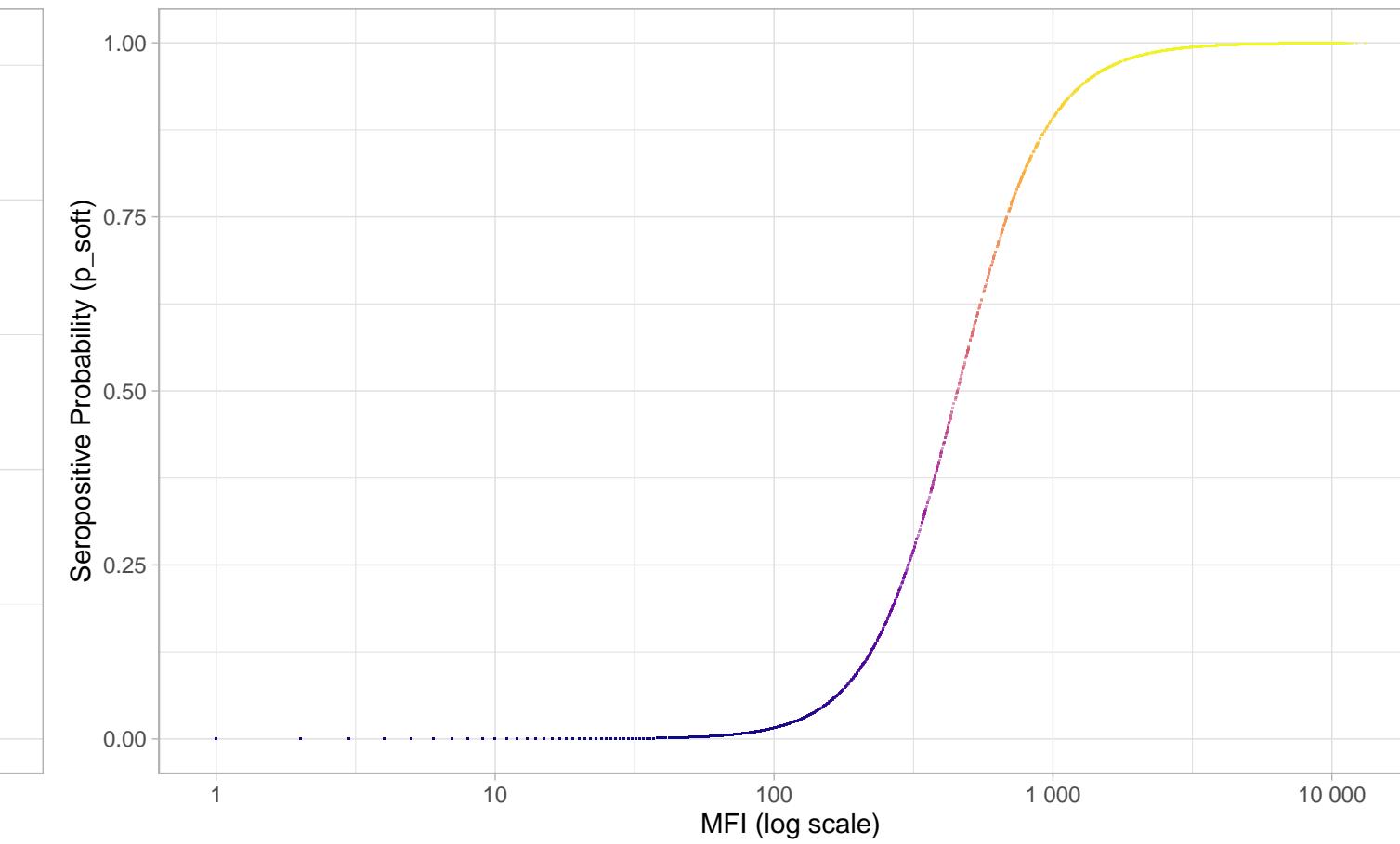
Comprehensive Diagnostics: hp_groel

N=9424 | >0.95=1731 | <0.05=6825 | Ambig=868

MFI Distribution: hp_groel
BL Hard Threshold = 80

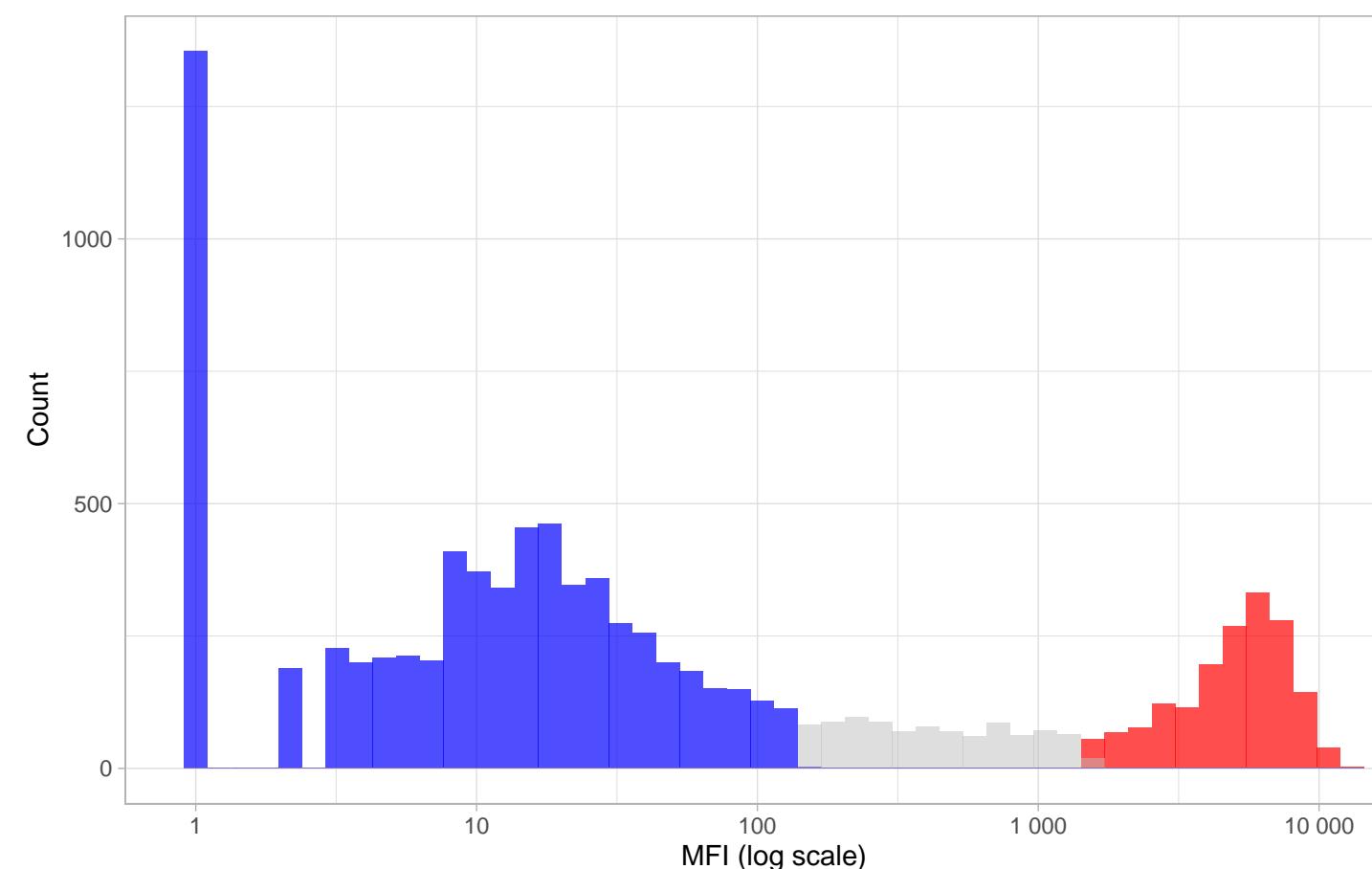


IgG vs Seropositive Probability: hp_groel



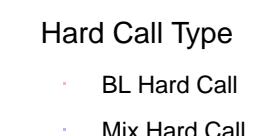
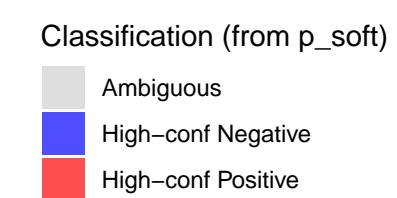
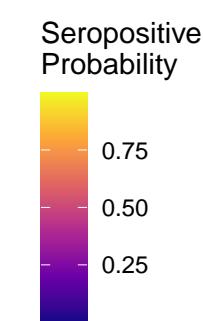
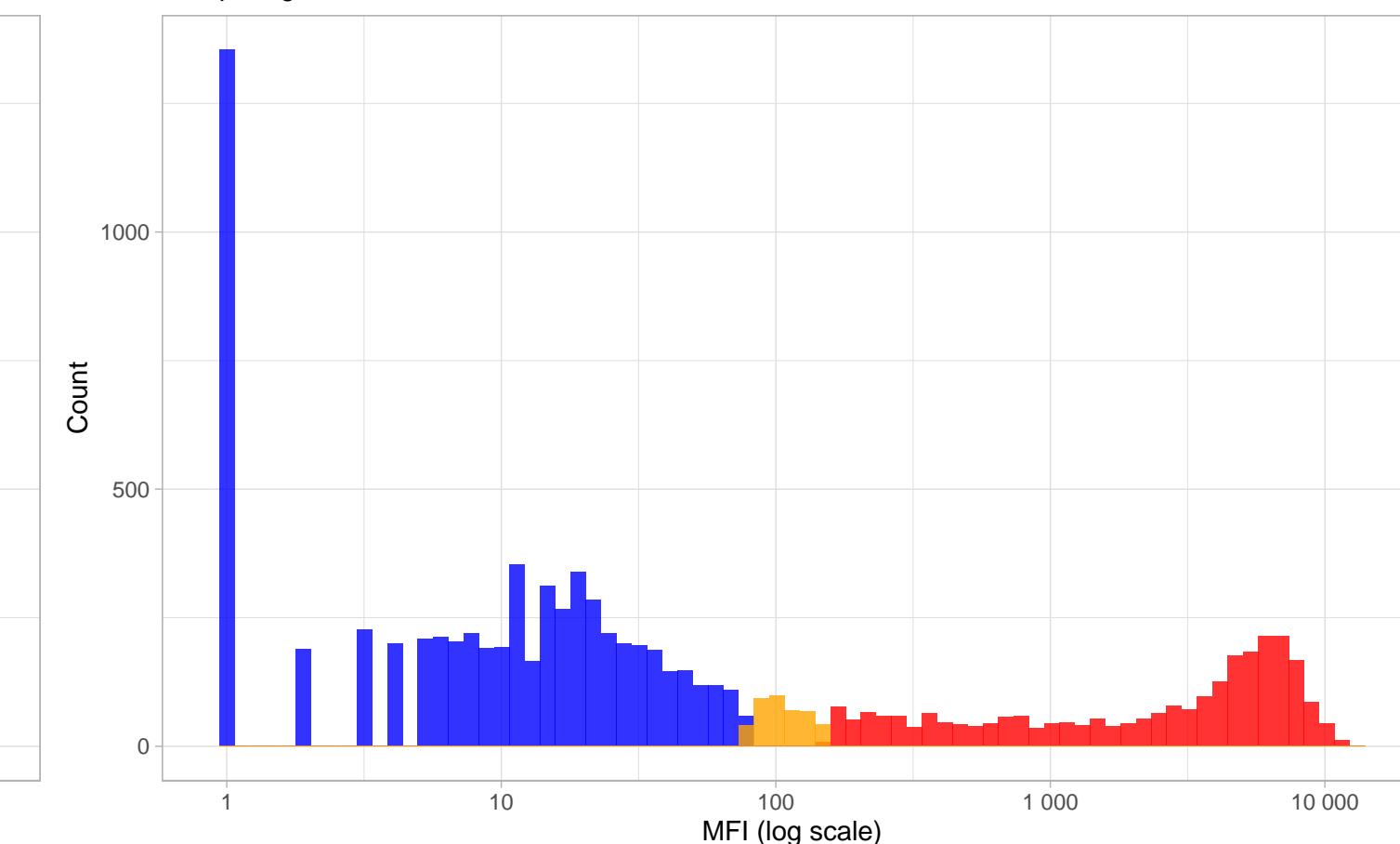
Distribution by Confidence: hp_groel

Prob threshold = 0.96



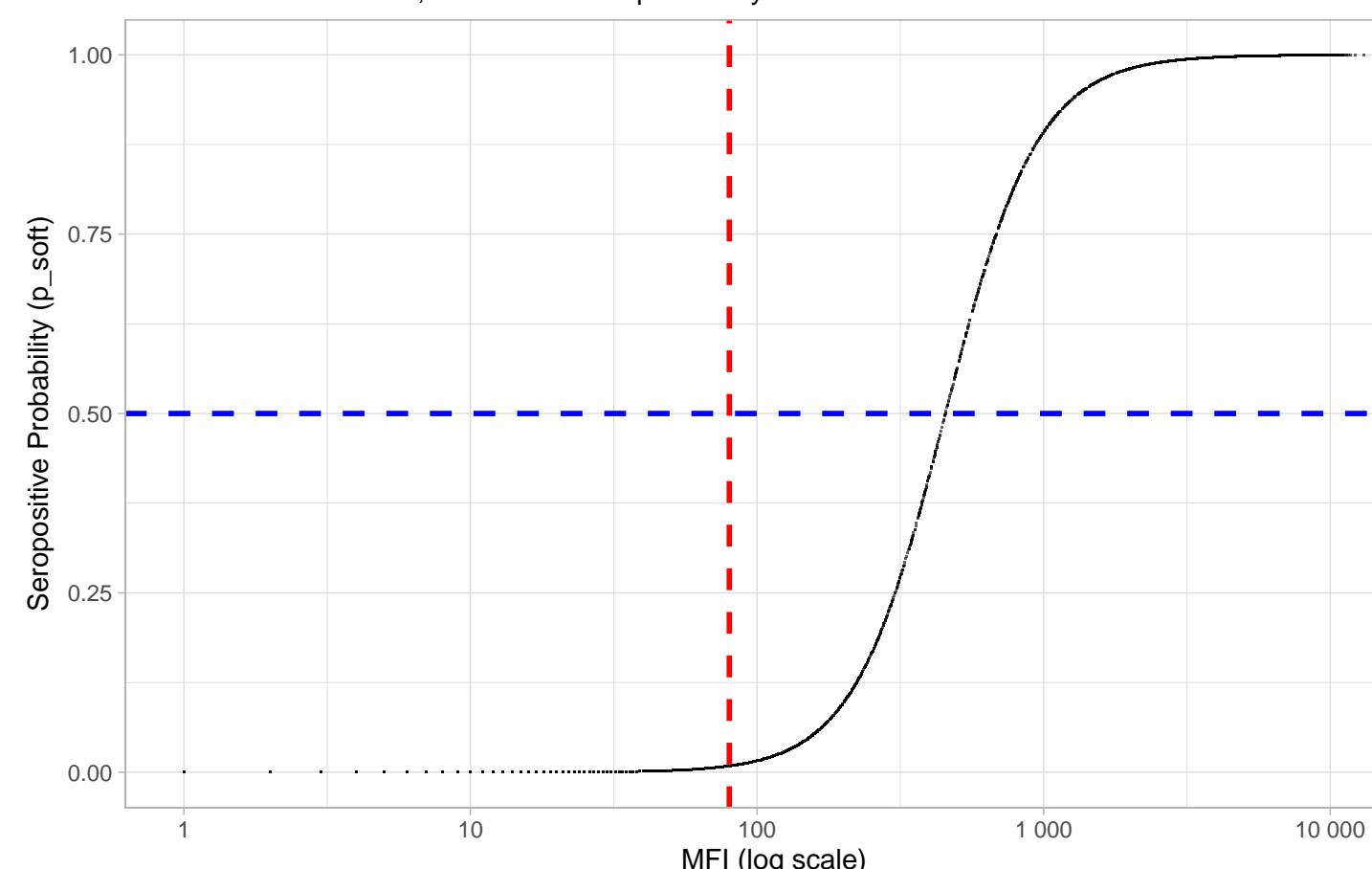
Phenotype Distribution by Classification: hp_groel

Comparing BL vs. Mixture-Model Hard Calls



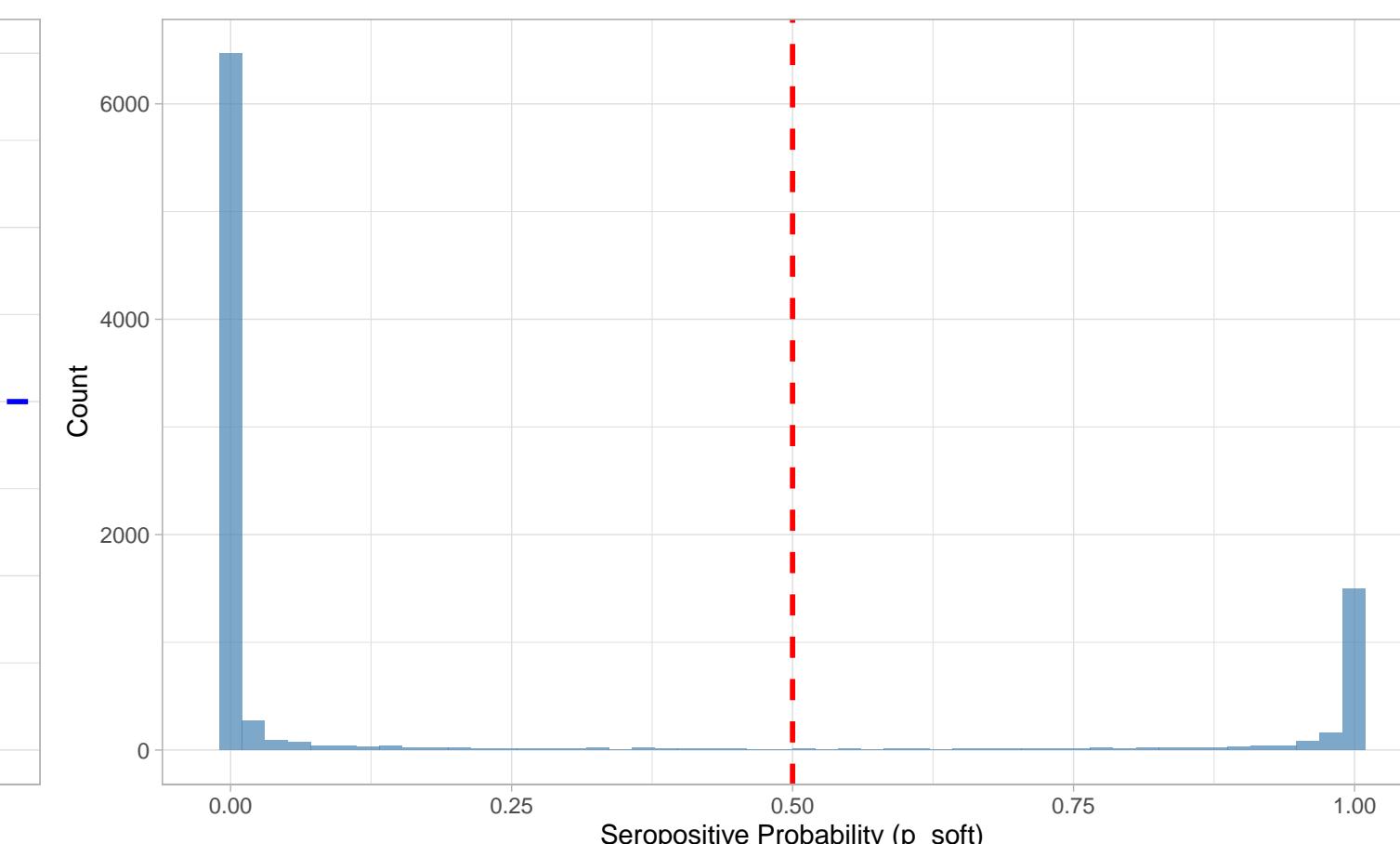
IgG Level vs. Seropositive Probability: hp_groel

Red line = BL threshold, Blue line = 50% probability



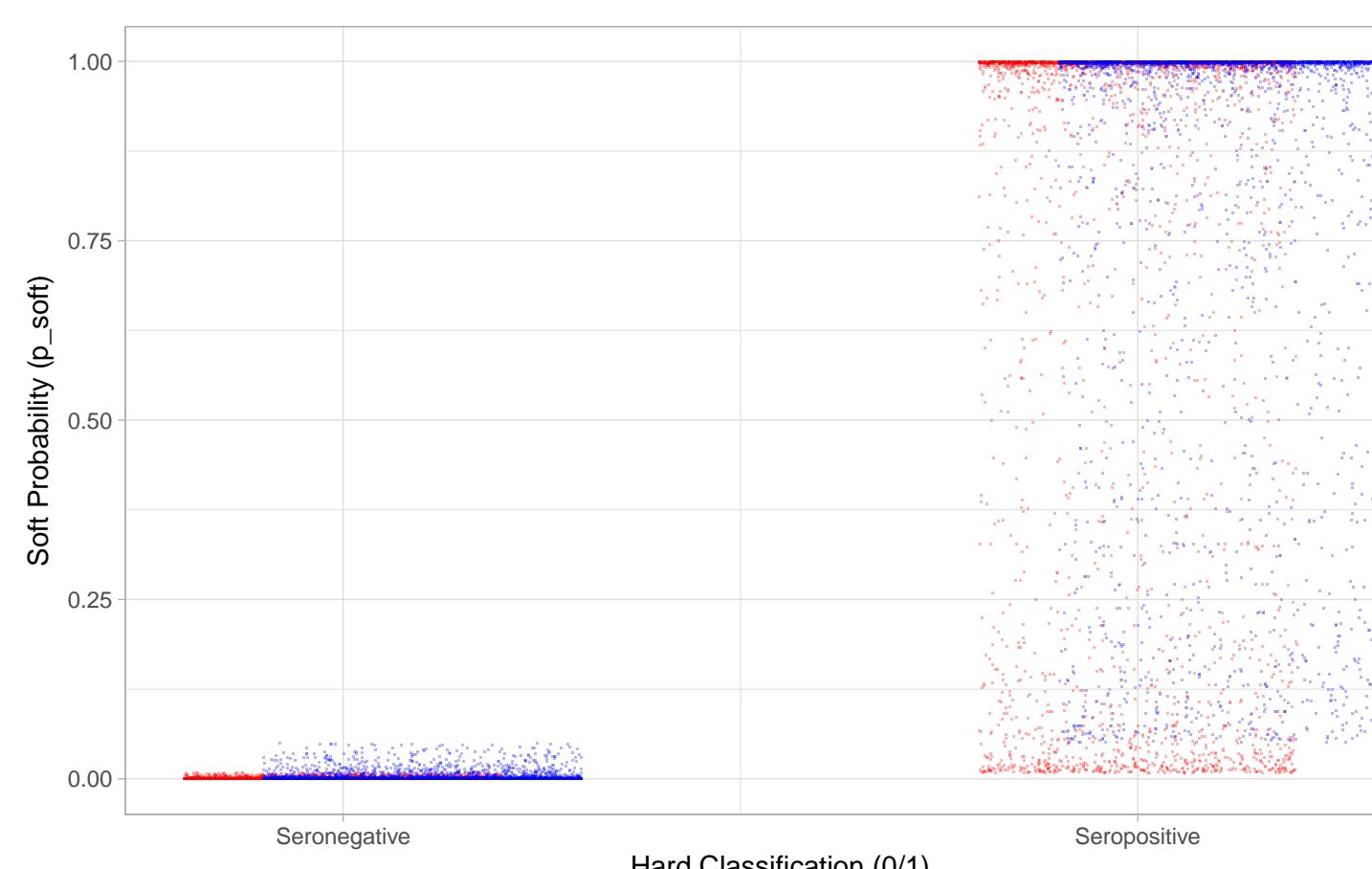
Distribution of Seropositive Probabilities: hp_groel

Red line = 50% threshold



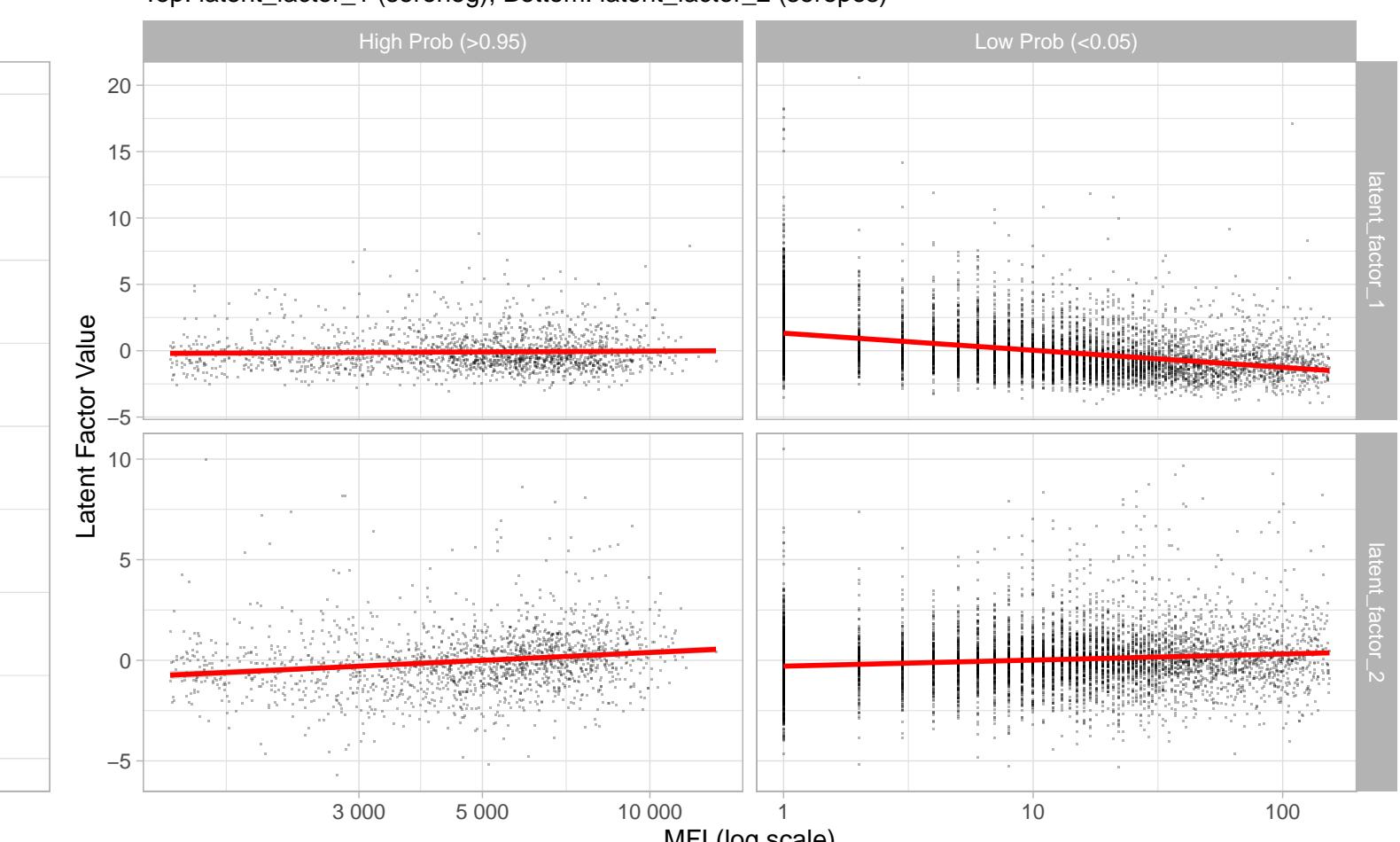
Hard Calls vs. Soft Probability: hp_groel

Comparing BL and Mixture-Model hard calls against p_soft



Latent Factor Components vs IgG Level: hp_groel

Top: latent_factor_1 (seroneg), Bottom: latent_factor_2 (seropos)

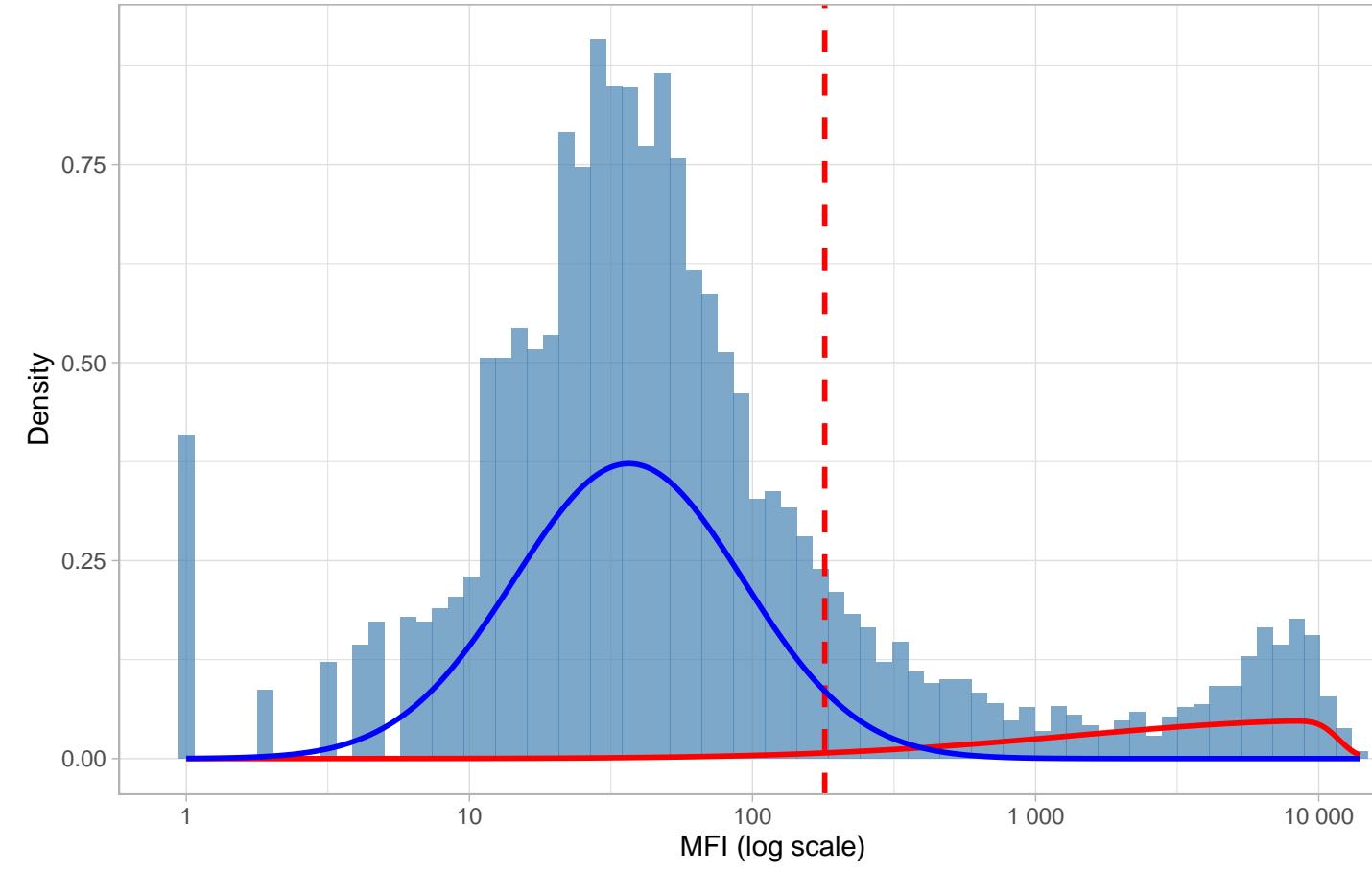


Comprehensive Diagnostics: hp_catalase

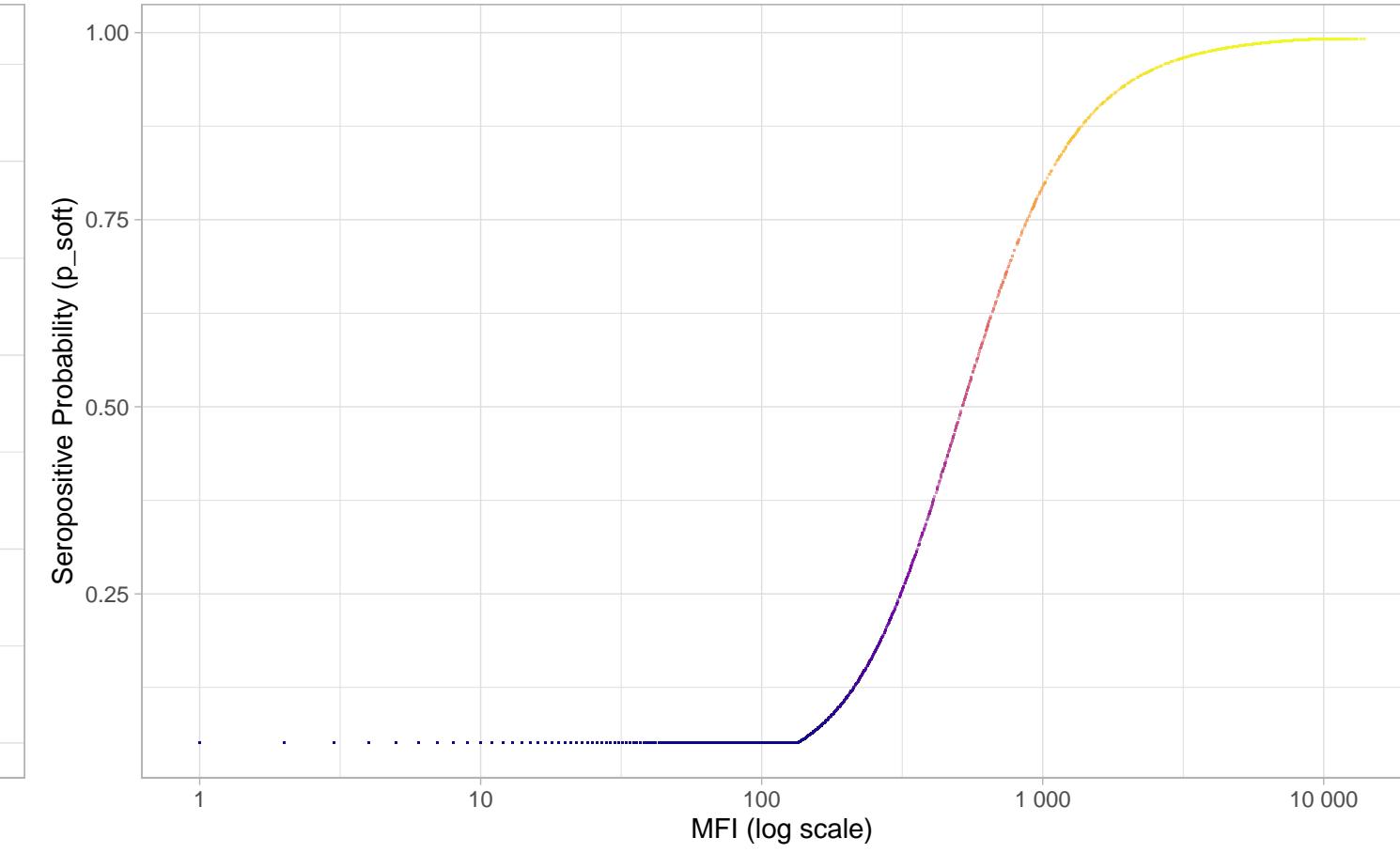
N=9424 | >0.95=684 | <0.05=0 | Ambig=8740

MFI Distribution: hp_catalase

BL Hard Threshold = 180

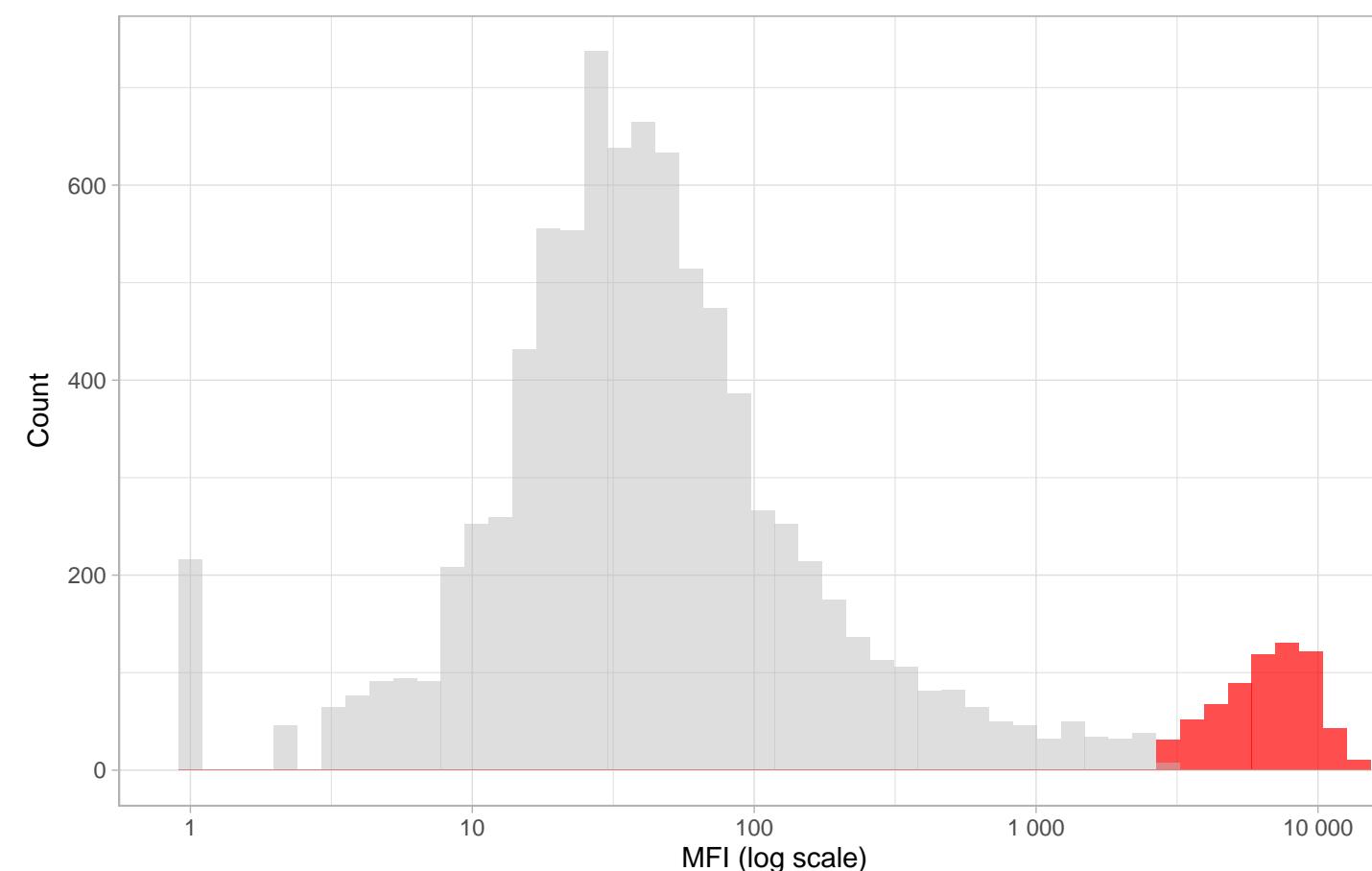


IgG vs Seropositive Probability: hp_catalase



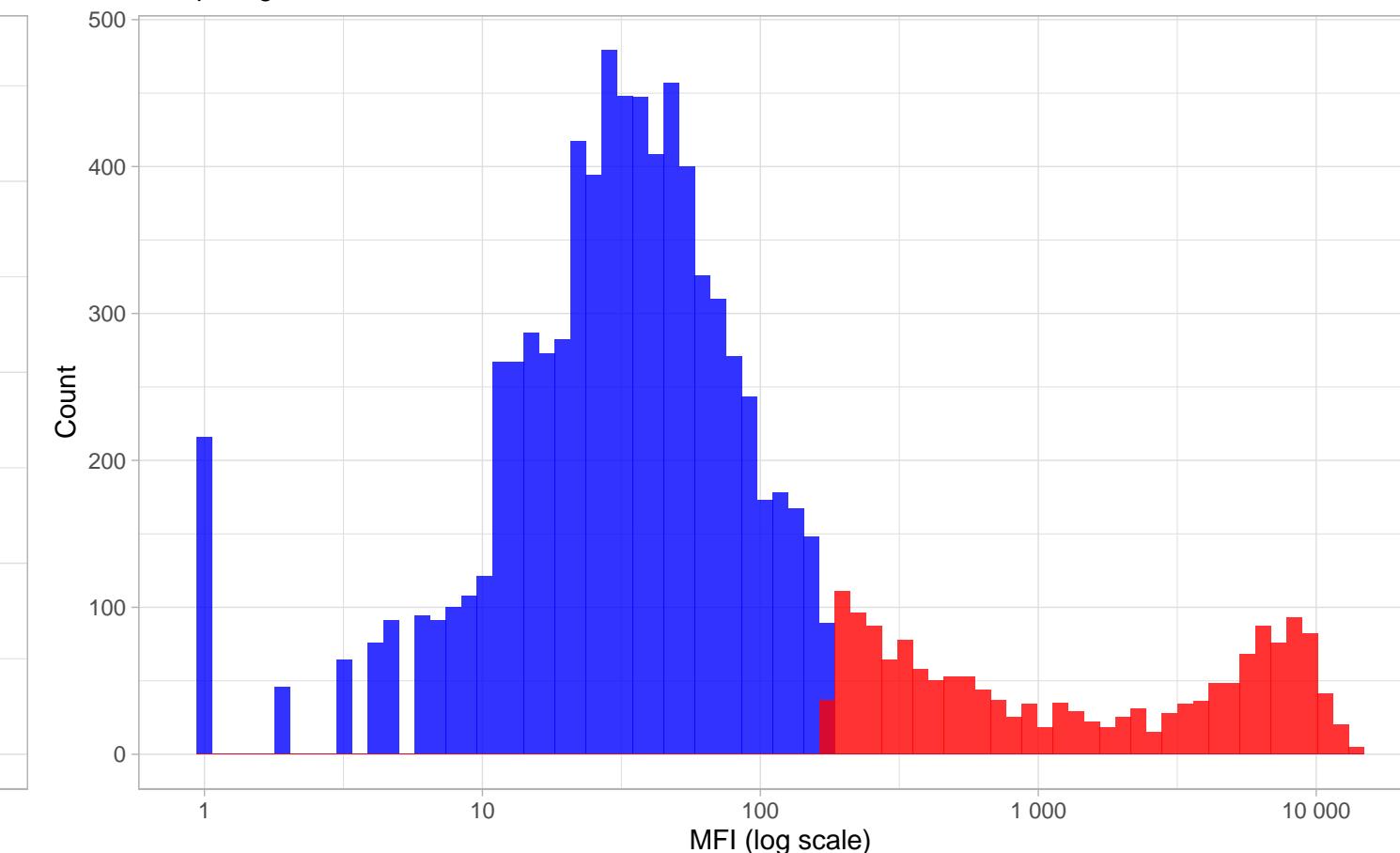
Distribution by Confidence: hp_catalase

Prob threshold = 0.96



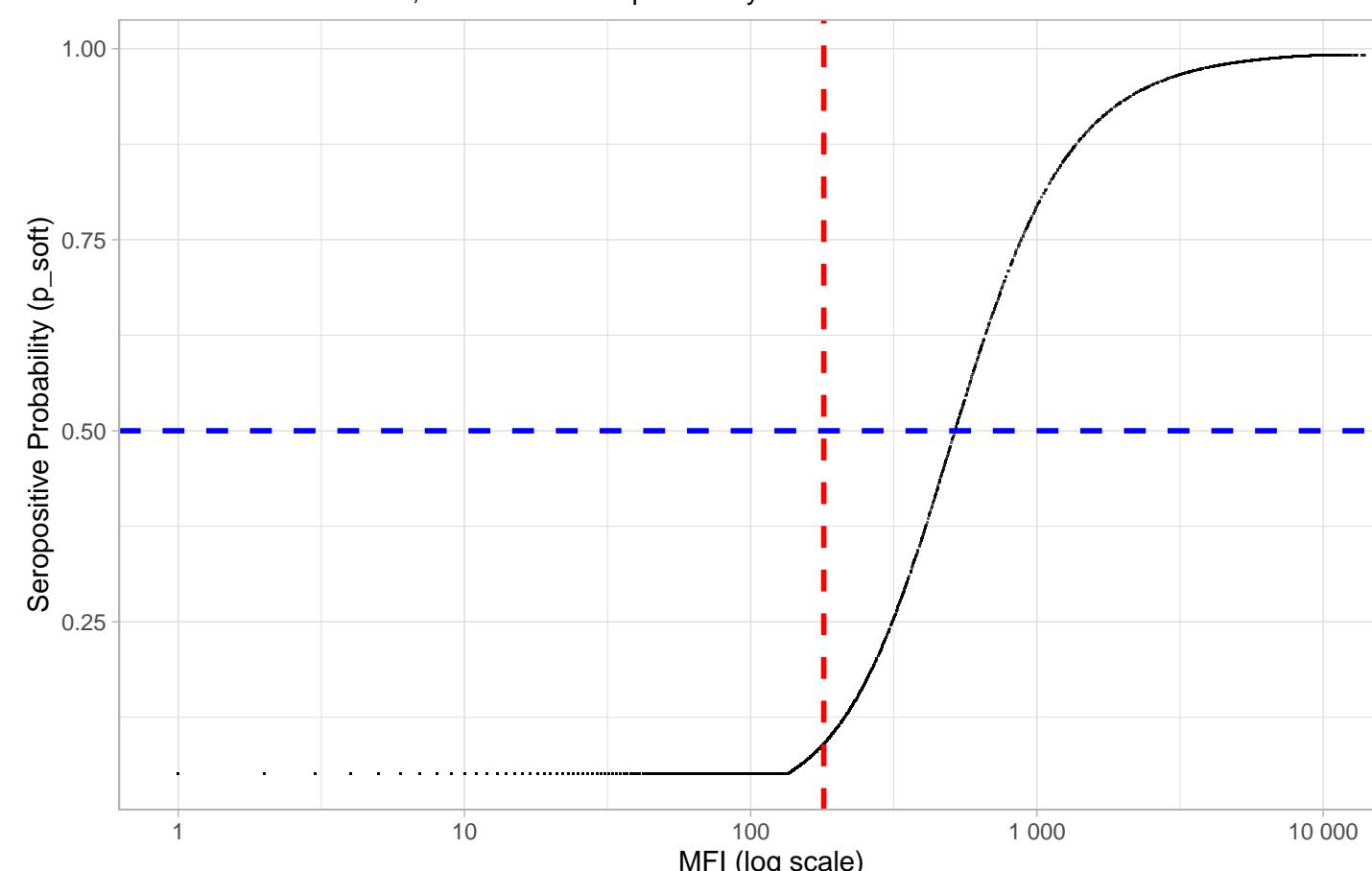
Phenotype Distribution by Classification: hp_catalase

Comparing BL vs. Mixture-Model Hard Calls



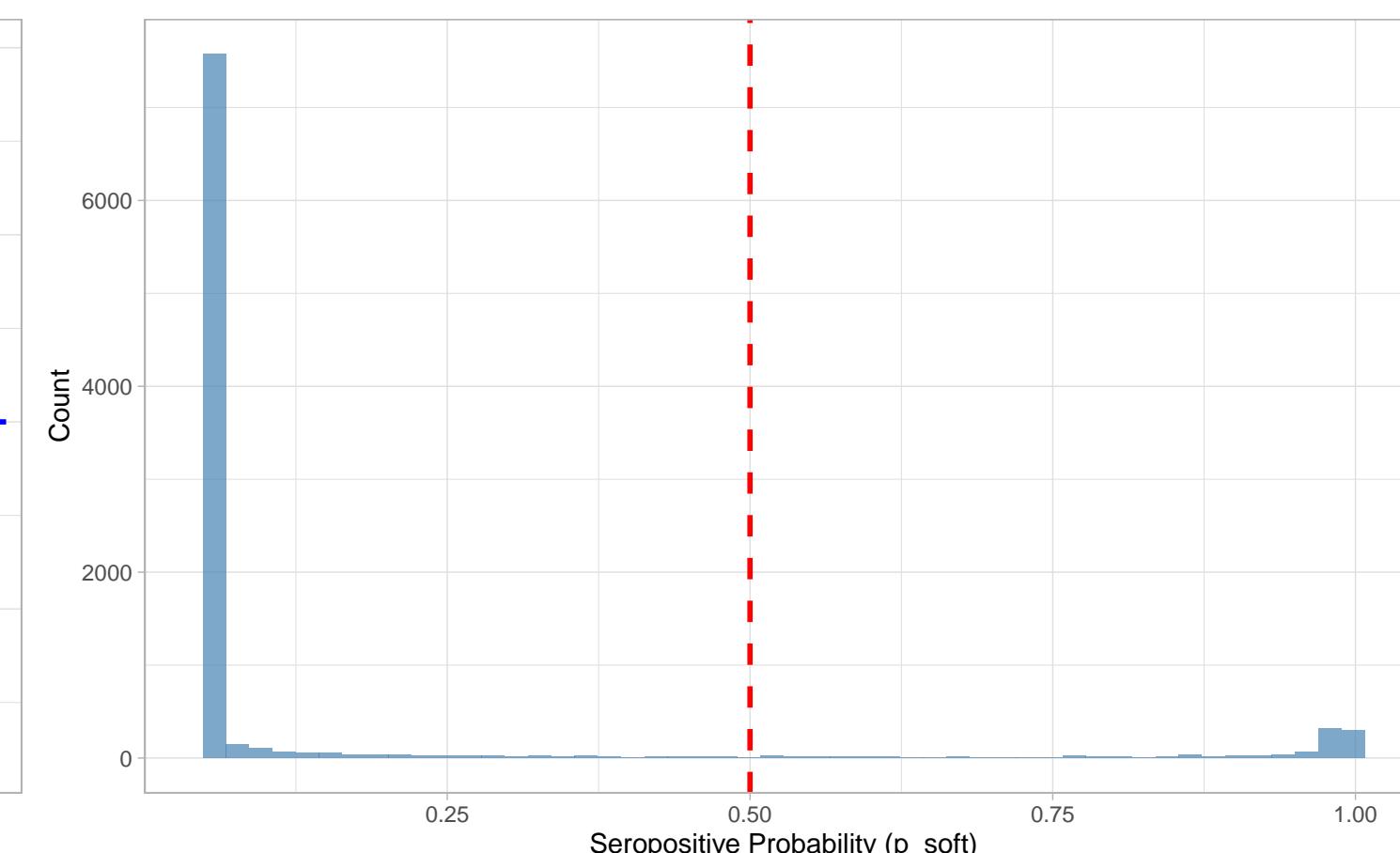
IgG Level vs. Seropositive Probability: hp_catalase

Red line = BL threshold, Blue line = 50% probability



Distribution of Seropositive Probabilities: hp_catalase

Red line = 50% threshold



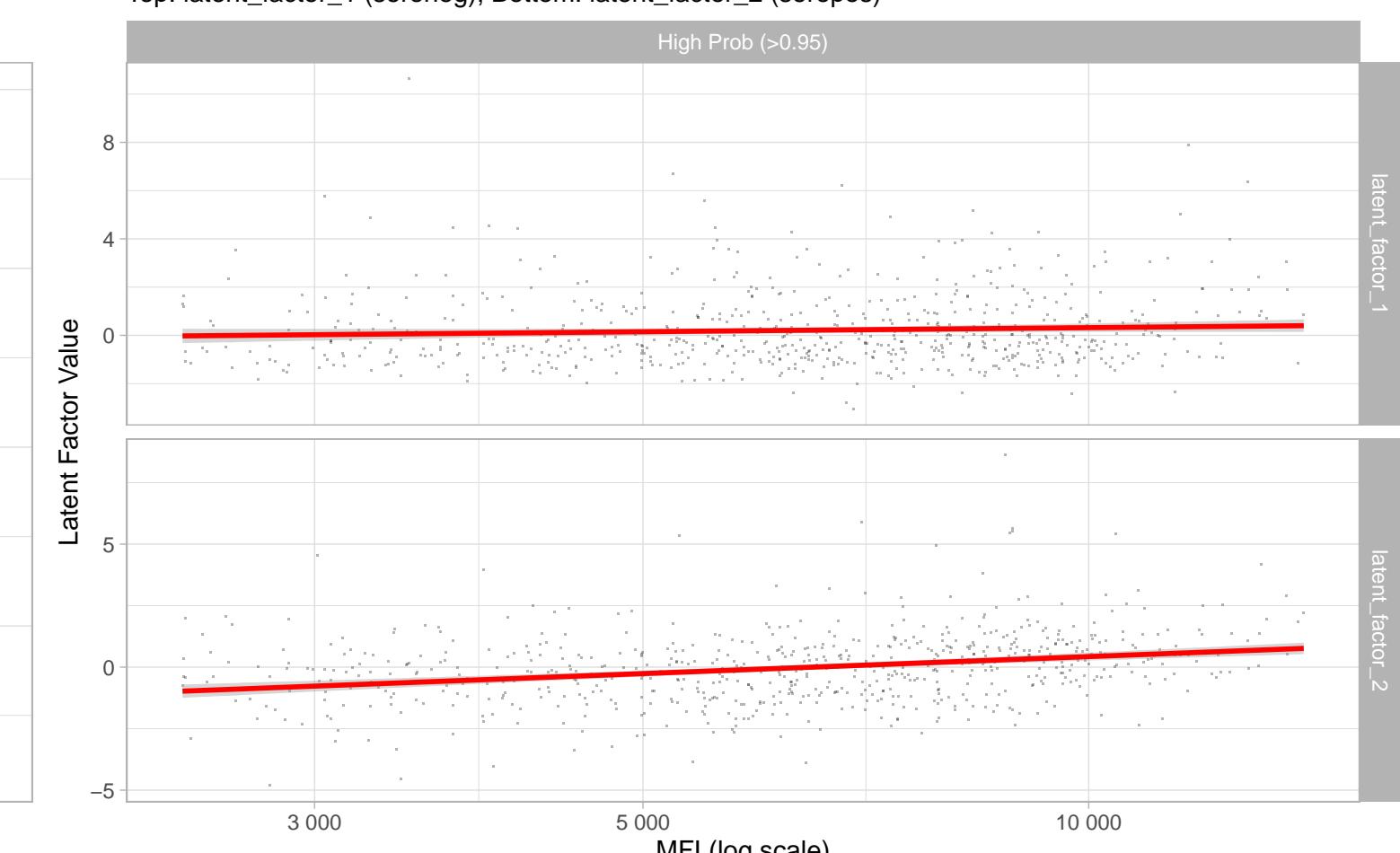
Hard Calls vs. Soft Probability: hp_catalase

Comparing BL and Mixture-Model hard calls against p_soft



Latent Factor Components vs IgG Level: hp_catalase

Top: latent_factor_1 (seroneg), Bottom: latent_factor_2 (seropos)

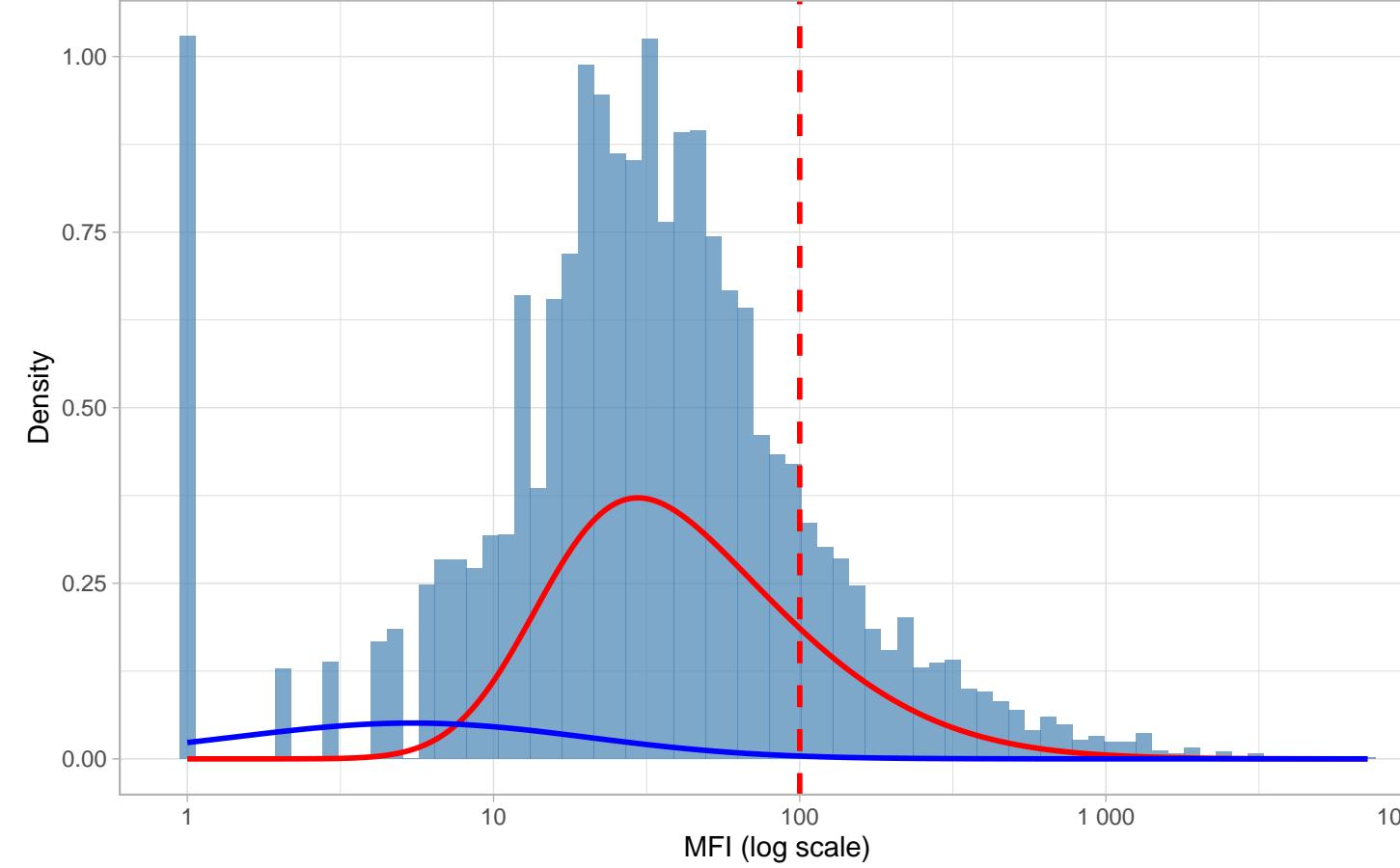


Comprehensive Diagnostics: toxo_p22

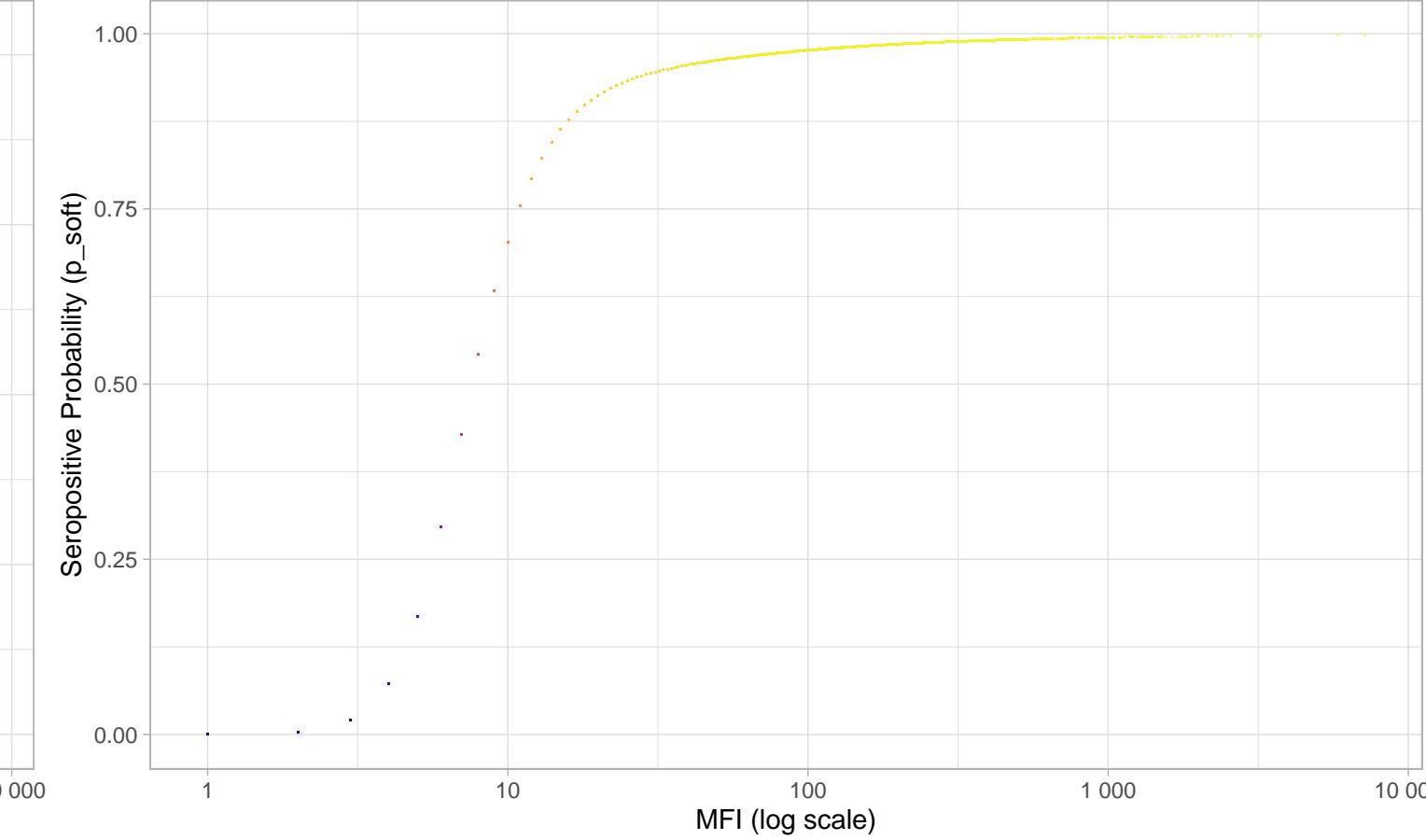
N=9424 | >0.95=4289 | <0.05=636 | Ambig=4499

MFI Distribution: toxo_p22

BL Hard Threshold = 100

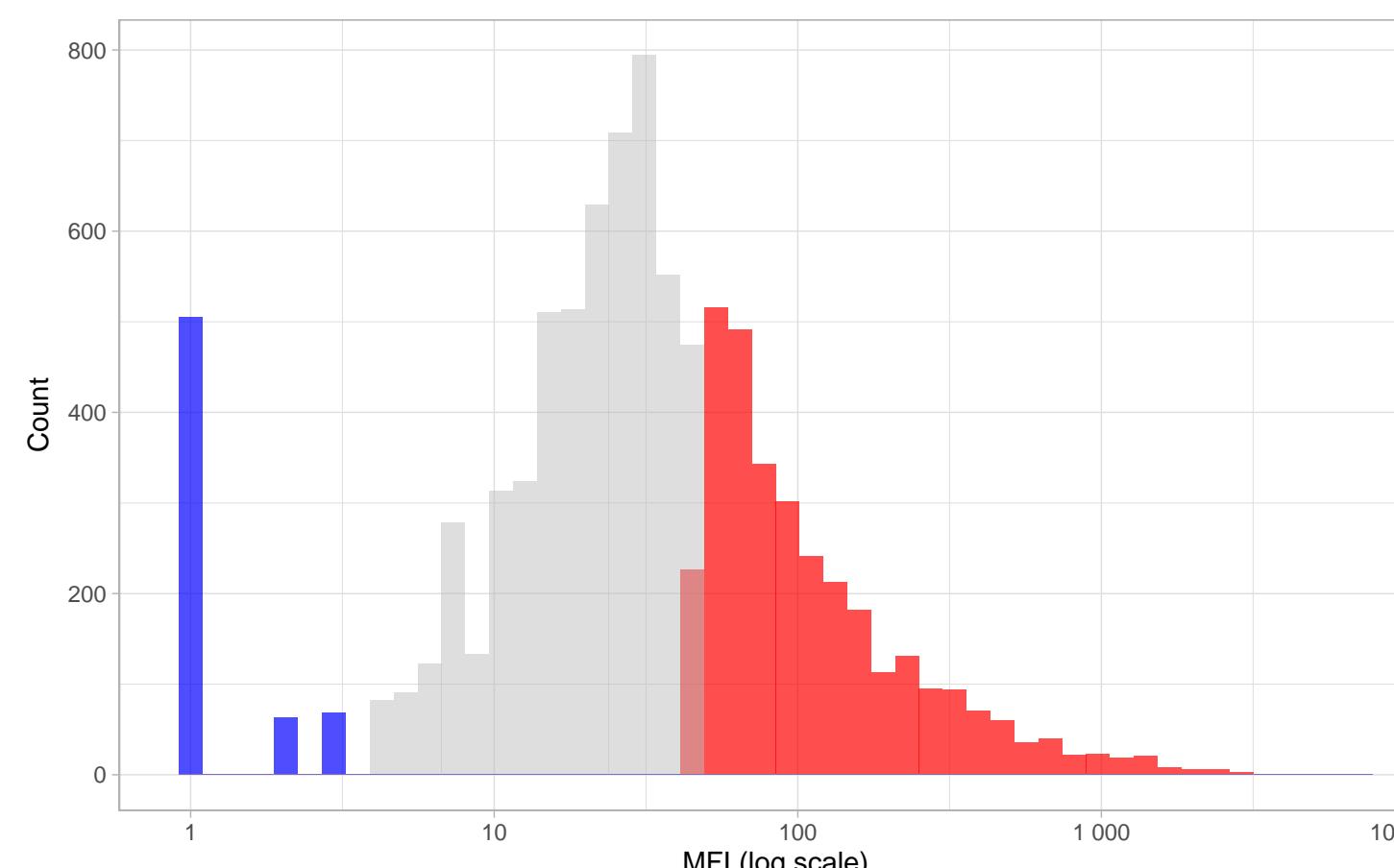


IgG vs Seropositive Probability: toxo_p22



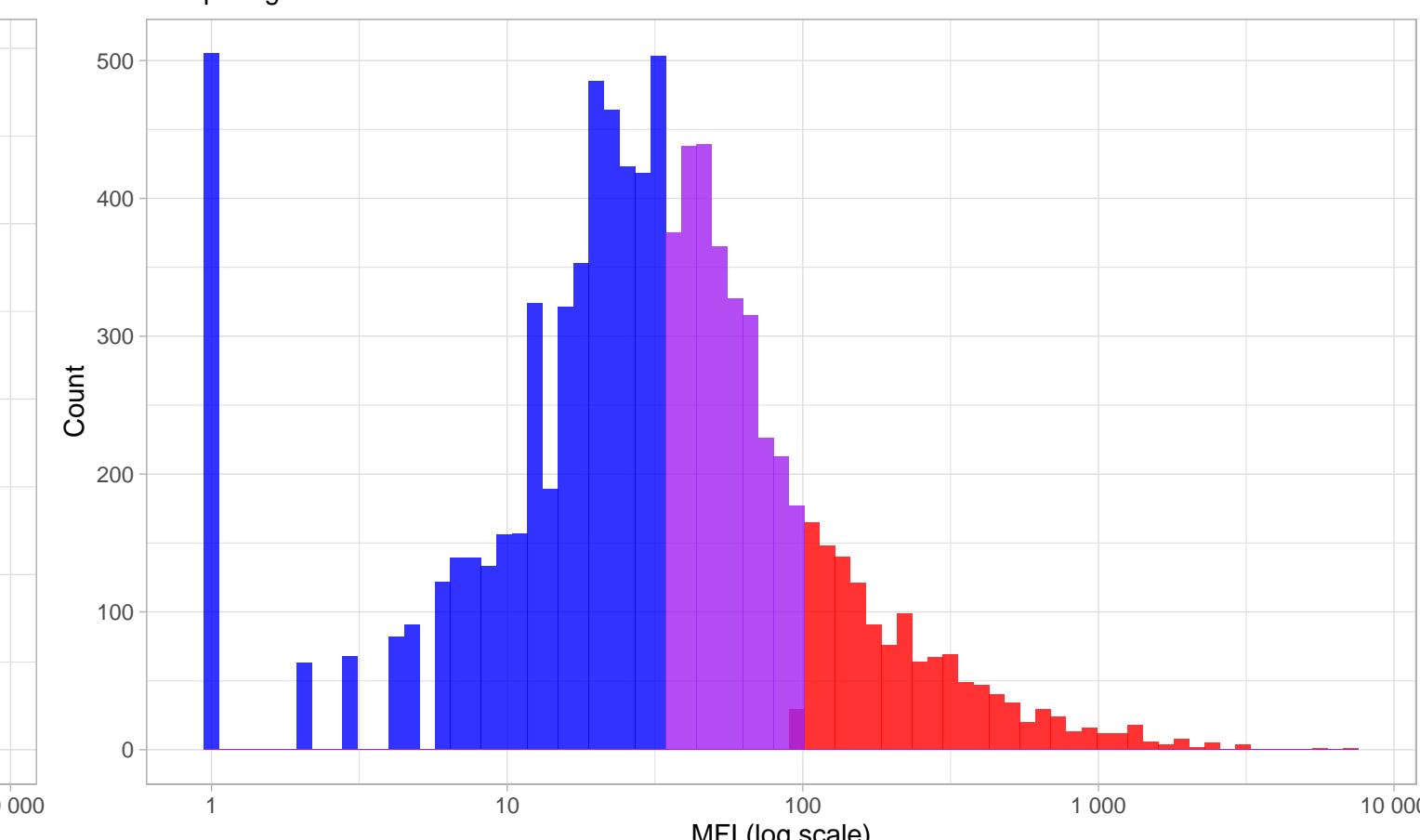
Distribution by Confidence: toxo_p22

Prob threshold = 0.96



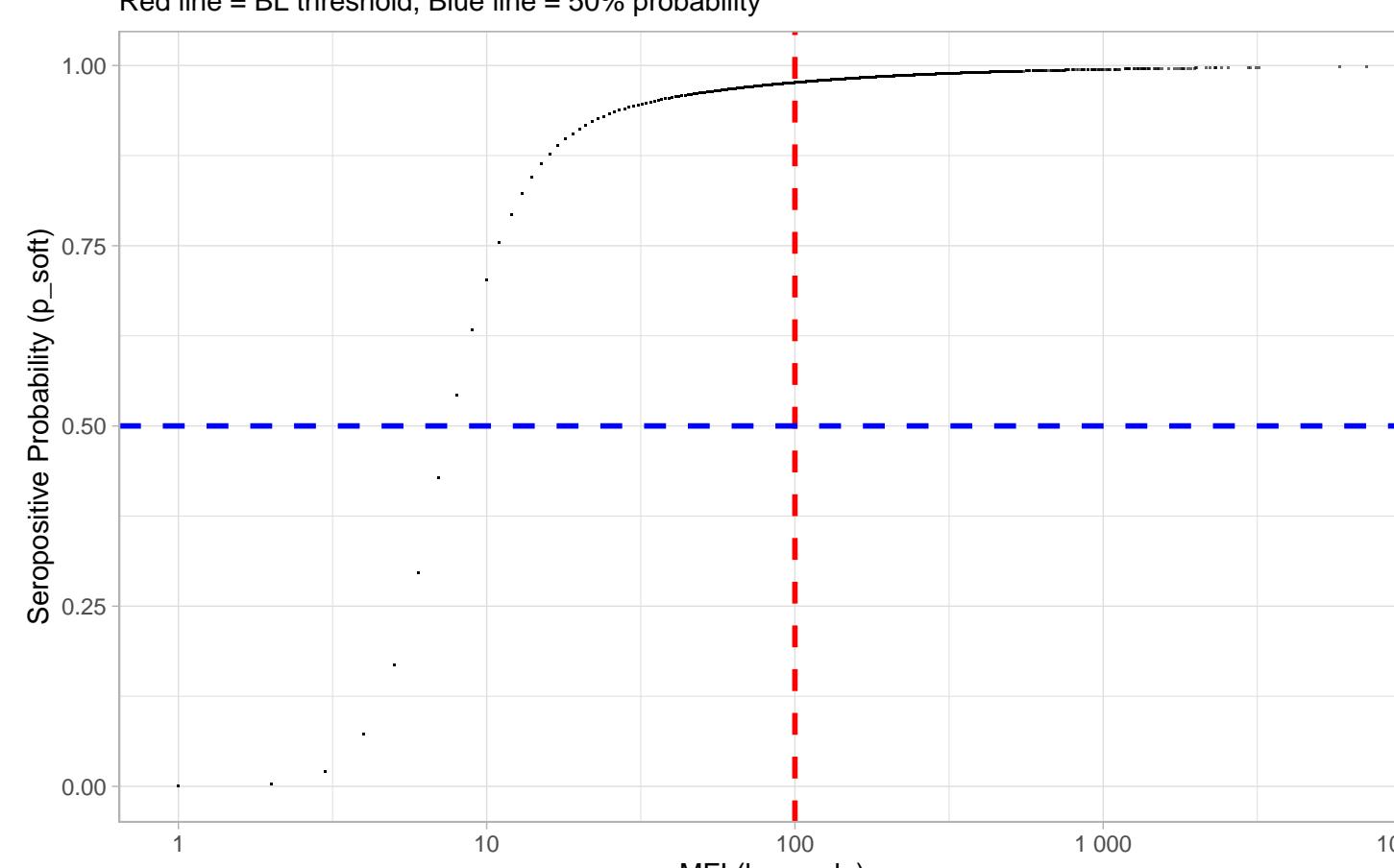
Phenotype Distribution by Classification: toxo_p22

Comparing BL vs. Mixture-Model Hard Calls



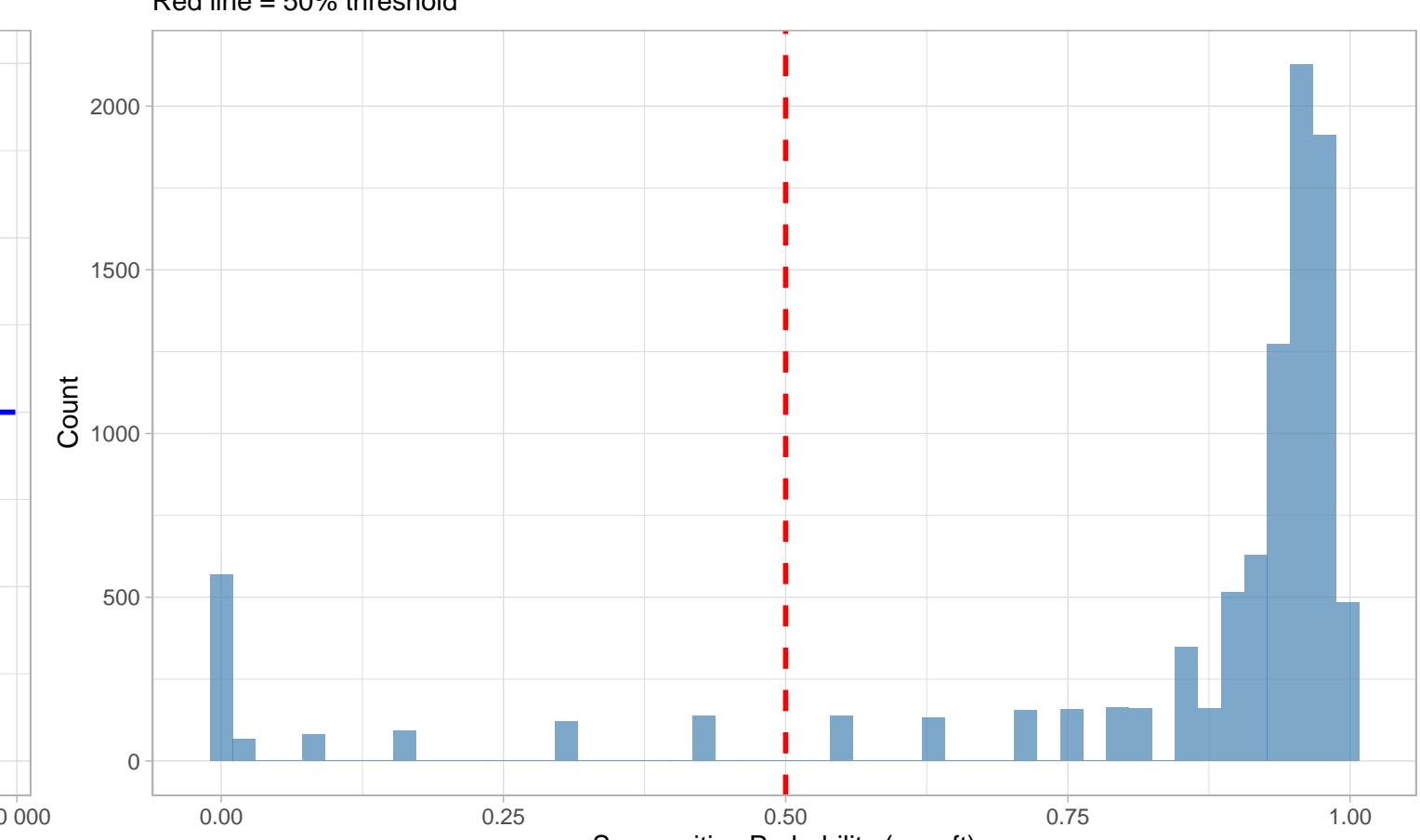
IgG Level vs. Seropositive Probability: toxo_p22

Red line = BL threshold, Blue line = 50% probability



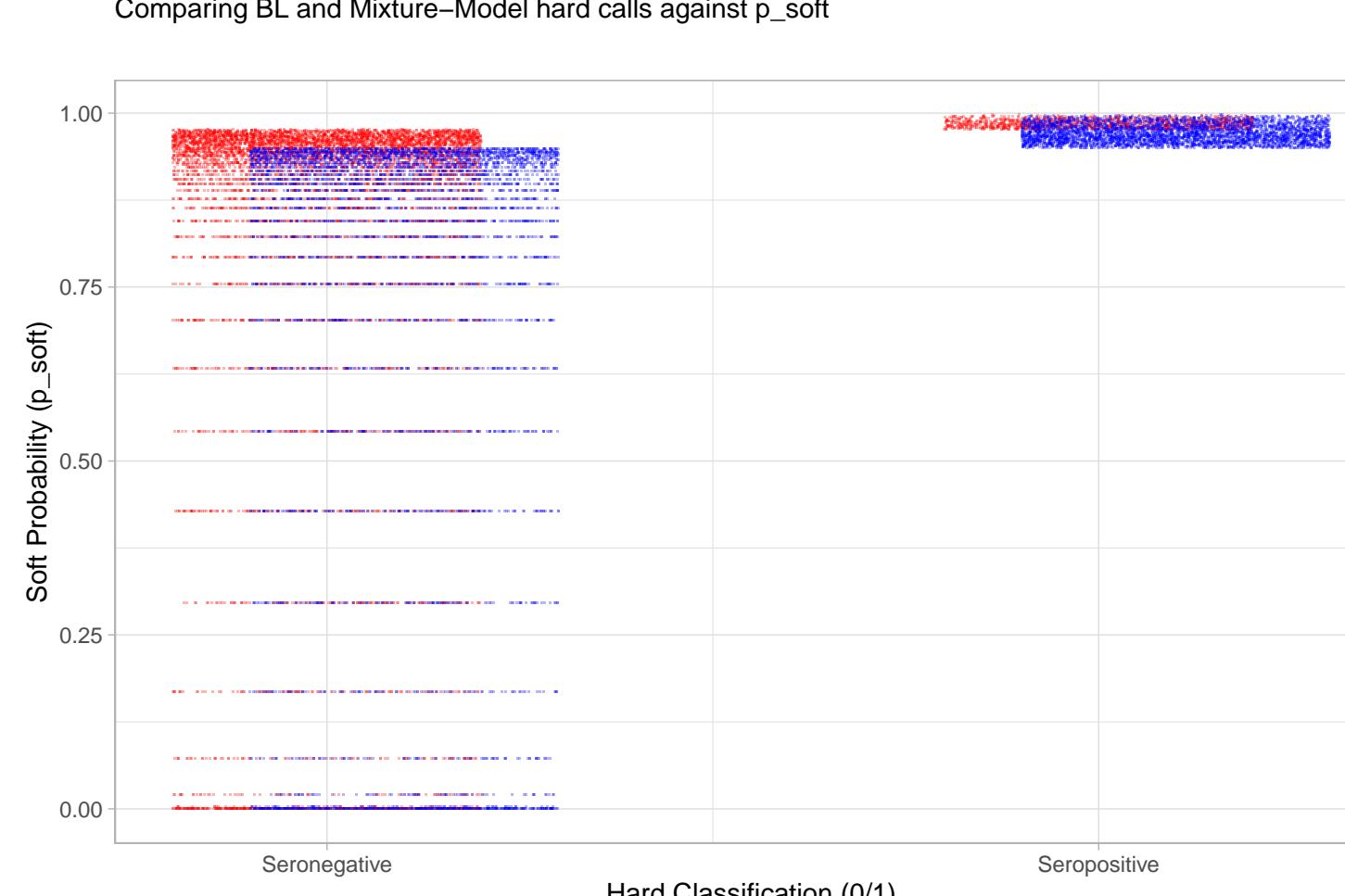
Distribution of Seropositive Probabilities: toxo_p22

Red line = 50% threshold



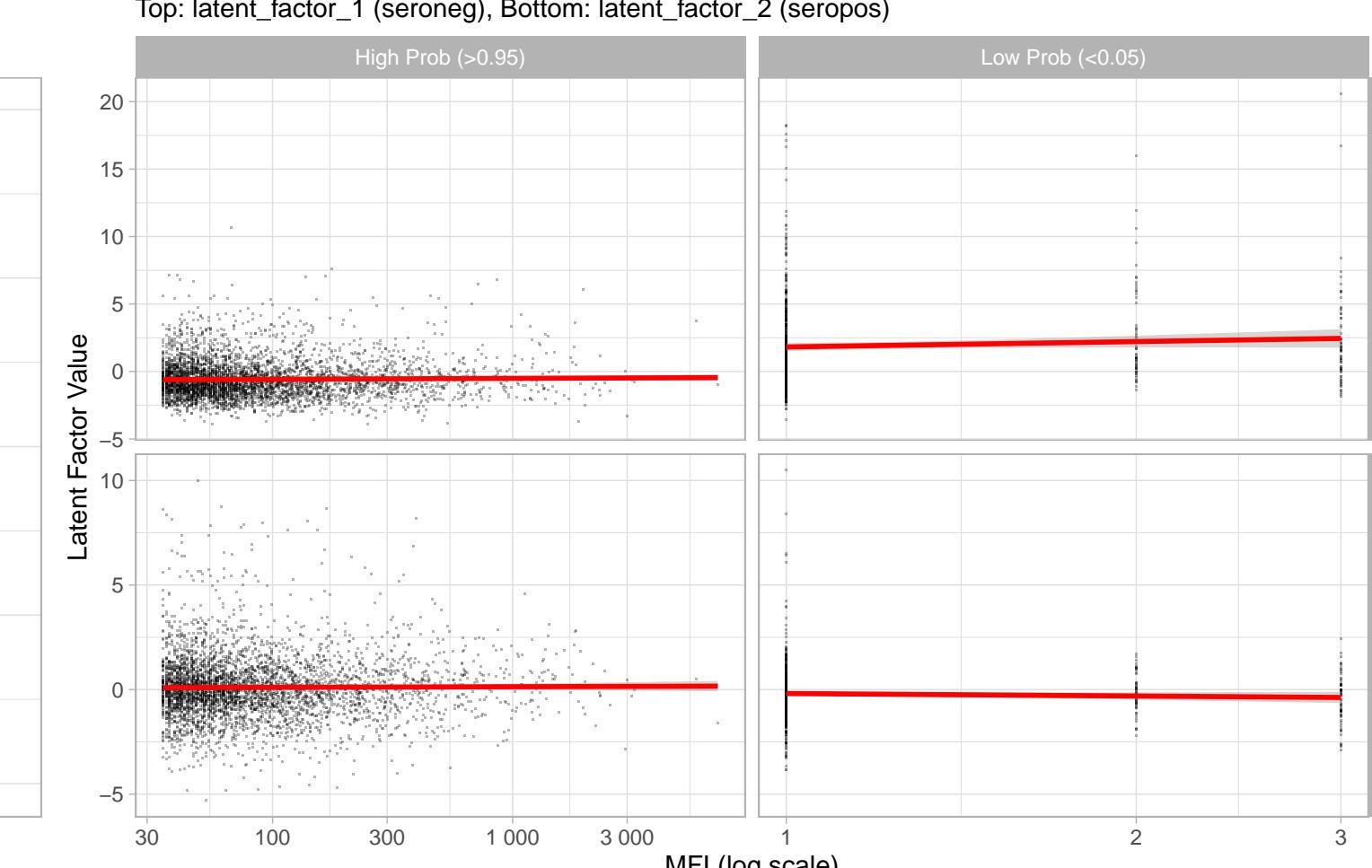
Hard Calls vs. Soft Probability: toxo_p22

Comparing BL and Mixture-Model hard calls against p_soft



Latent Factor Components vs IgG Level: toxo_p22

Top: latent_factor_1 (seroneg), Bottom: latent_factor_2 (seropos)

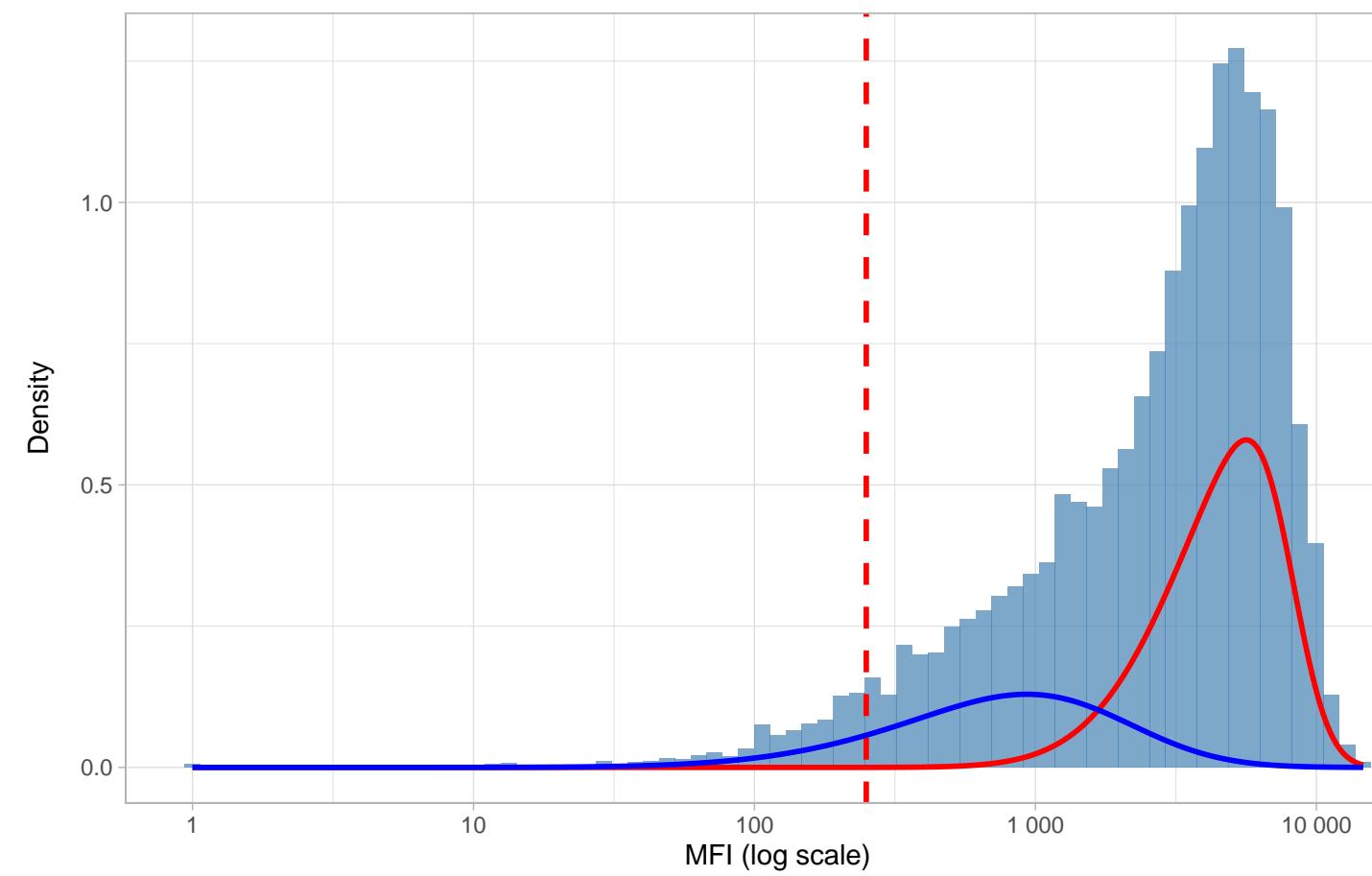


Comprehensive Diagnostics: bkv_vp1

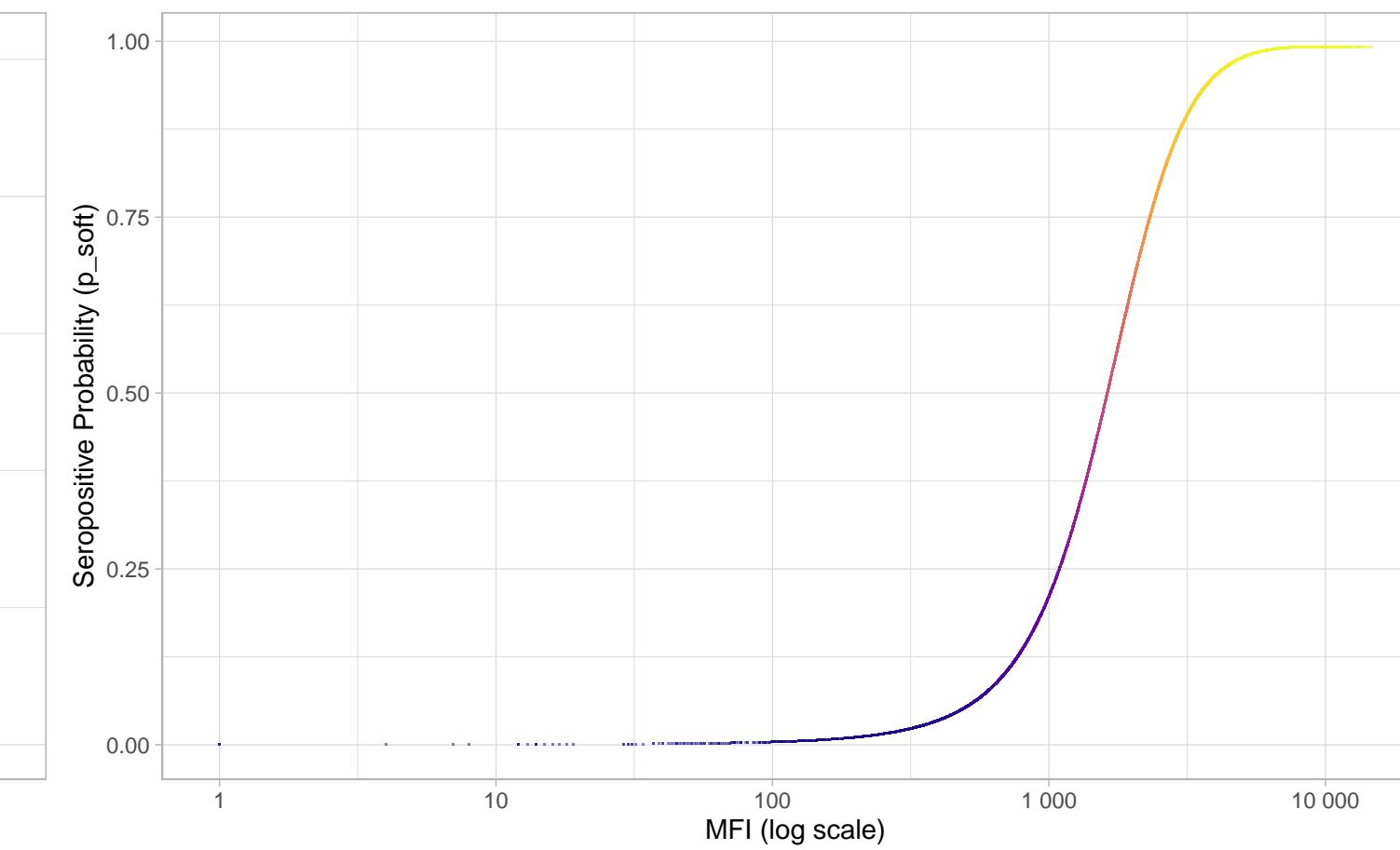
N=9424 | >0.95=4129 | <0.05=932 | Ambig=4363

MFI Distribution: bkv_vp1

BL Hard Threshold = 250

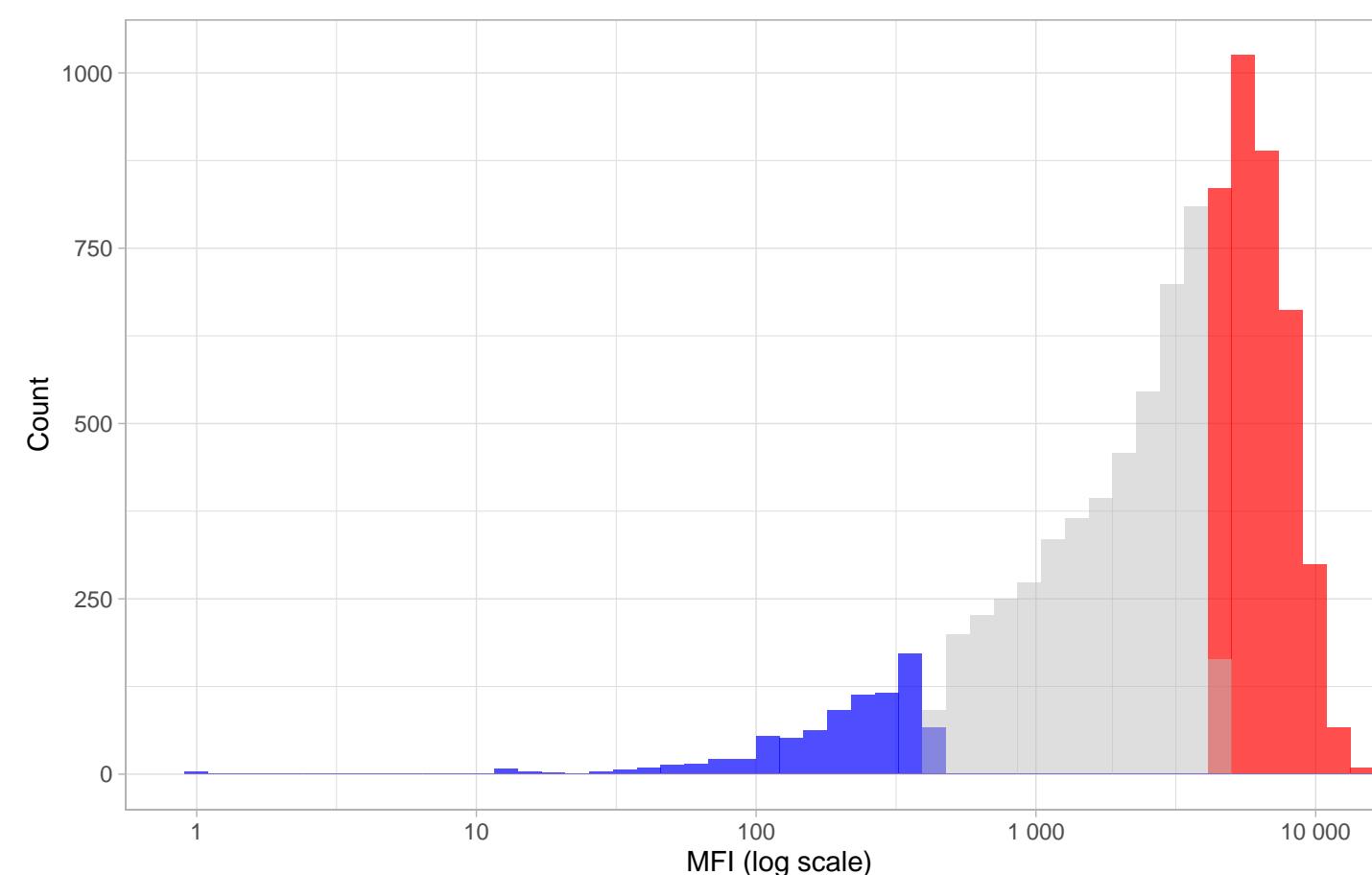


IgG vs Seropositive Probability: bkv_vp1



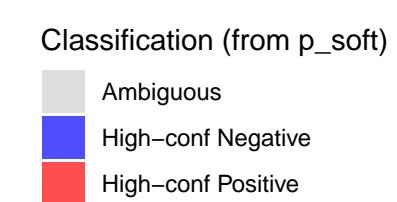
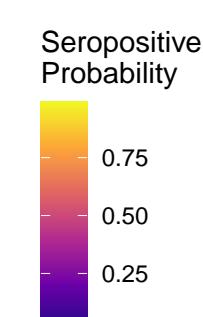
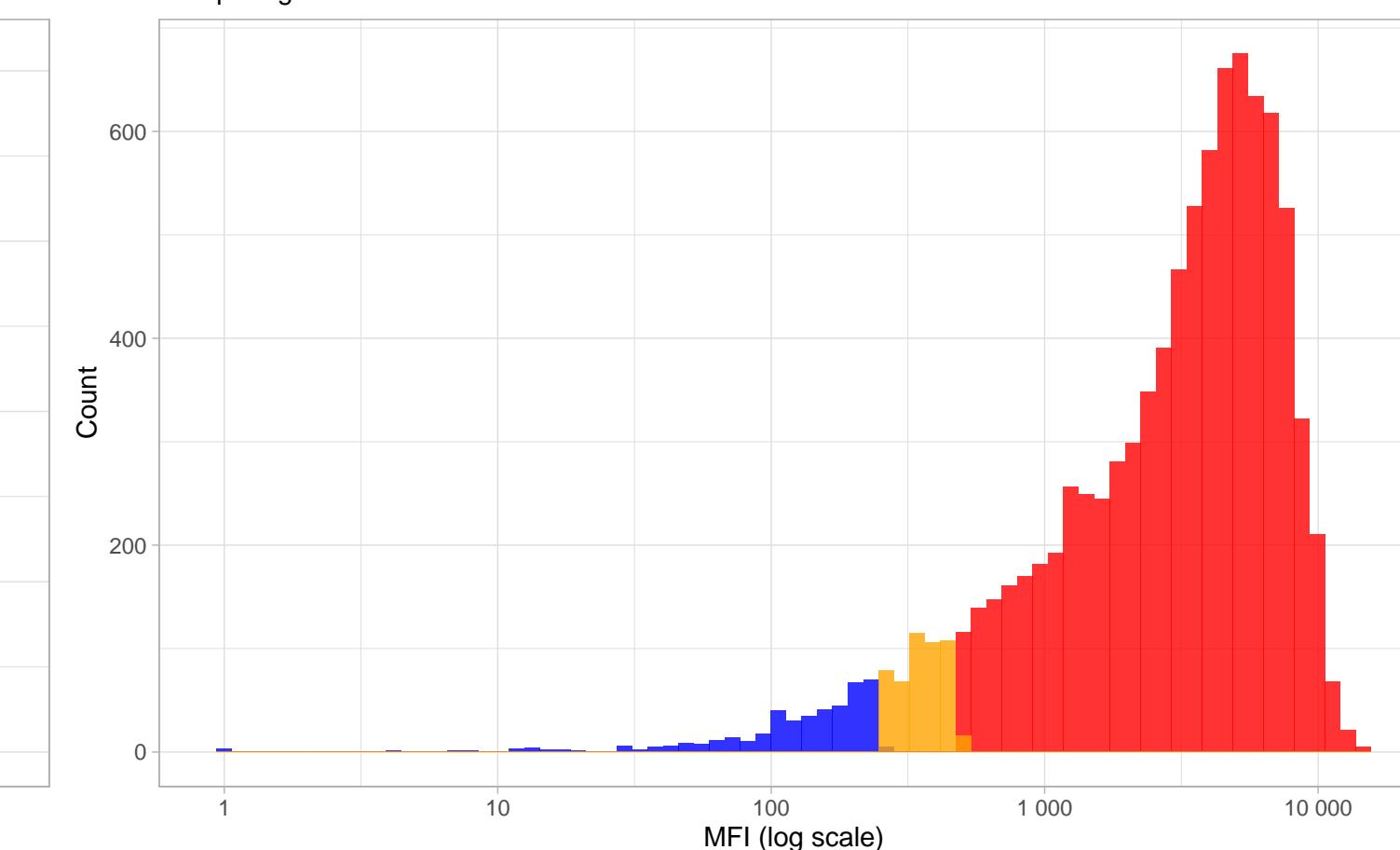
Distribution by Confidence: bkv_vp1

Prob threshold = 0.96



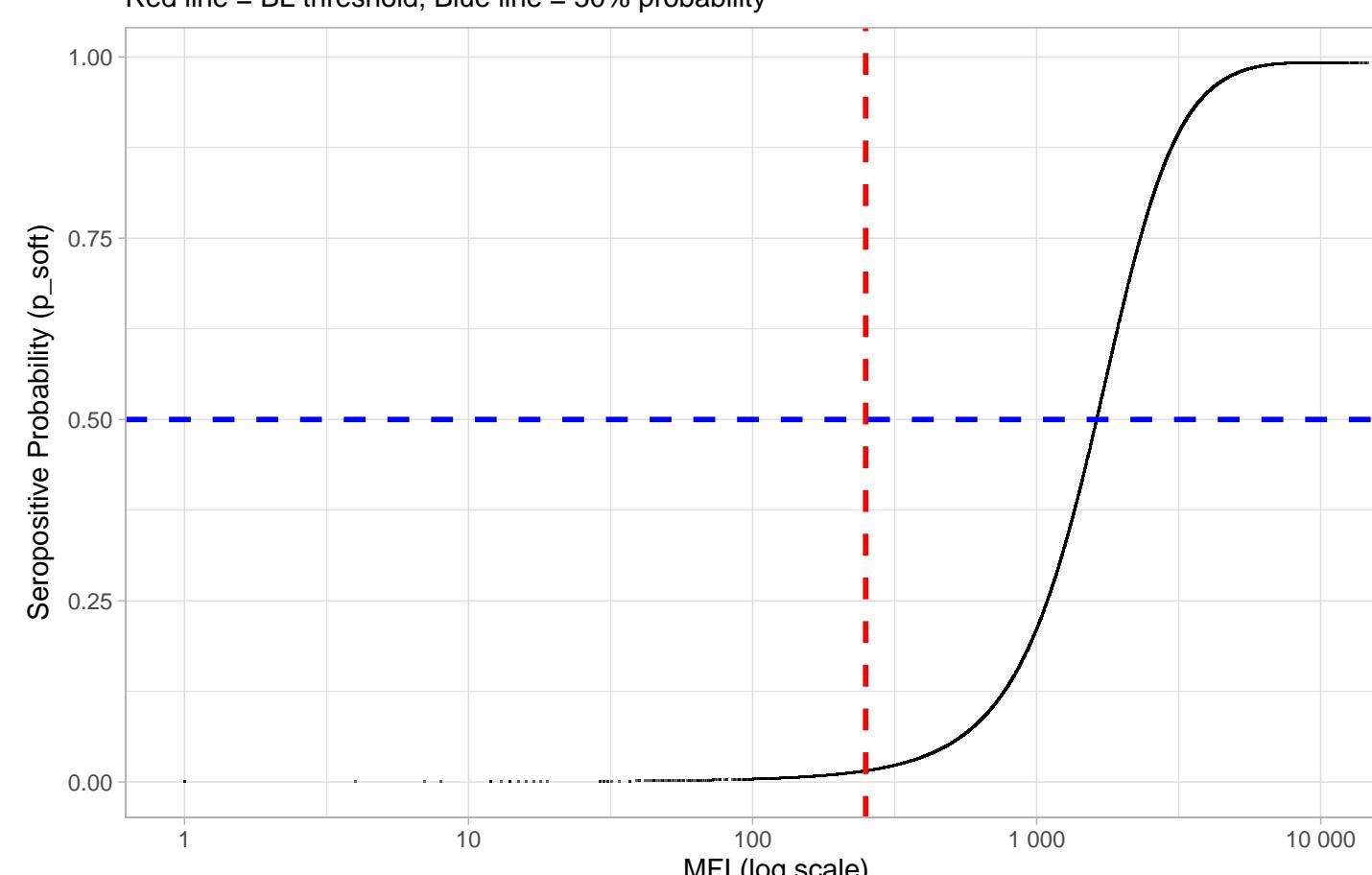
Phenotype Distribution by Classification: bkv_vp1

Comparing BL vs. Mixture-Model Hard Calls



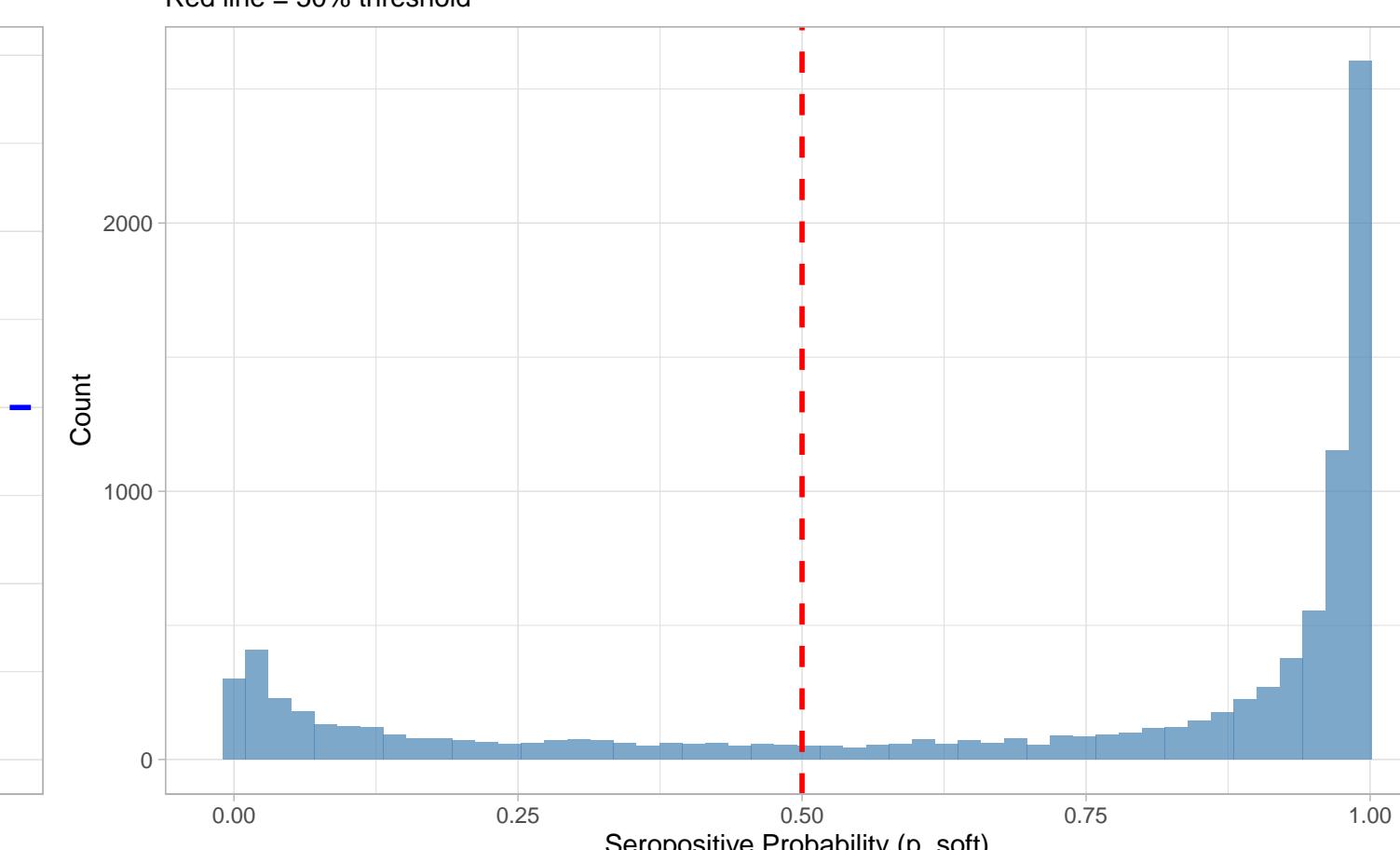
IgG Level vs. Seropositive Probability: bkv_vp1

Red line = BL threshold, Blue line = 50% probability



Distribution of Seropositive Probabilities: bkv_vp1

Red line = 50% threshold



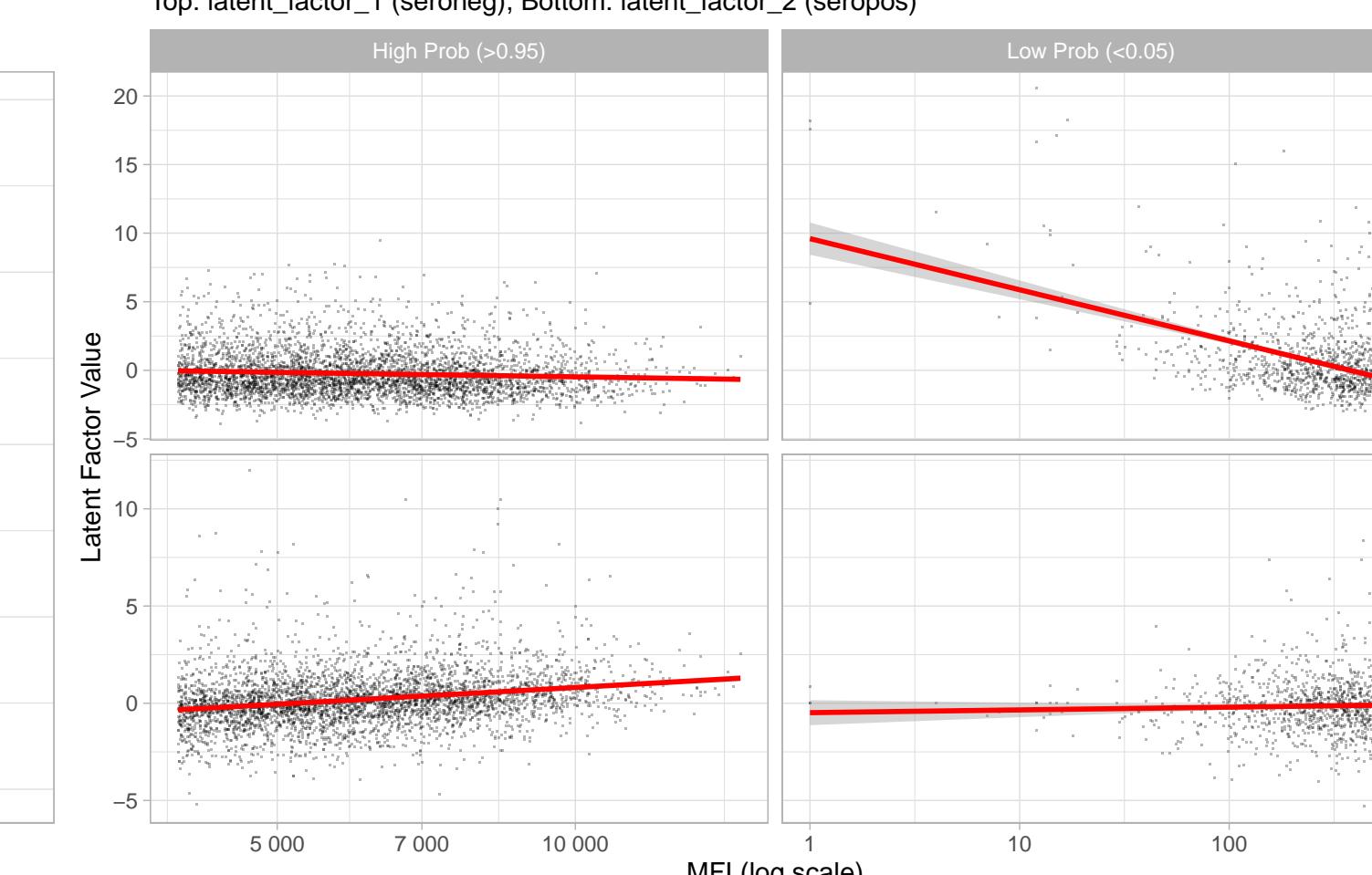
Hard Calls vs. Soft Probability: bkv_vp1

Comparing BL and Mixture-Model hard calls against p_{soft}



Latent Factor Components vs IgG Level: bkv_vp1

Top: latent_factor_1 (seroneg), Bottom: latent_factor_2 (seropos)

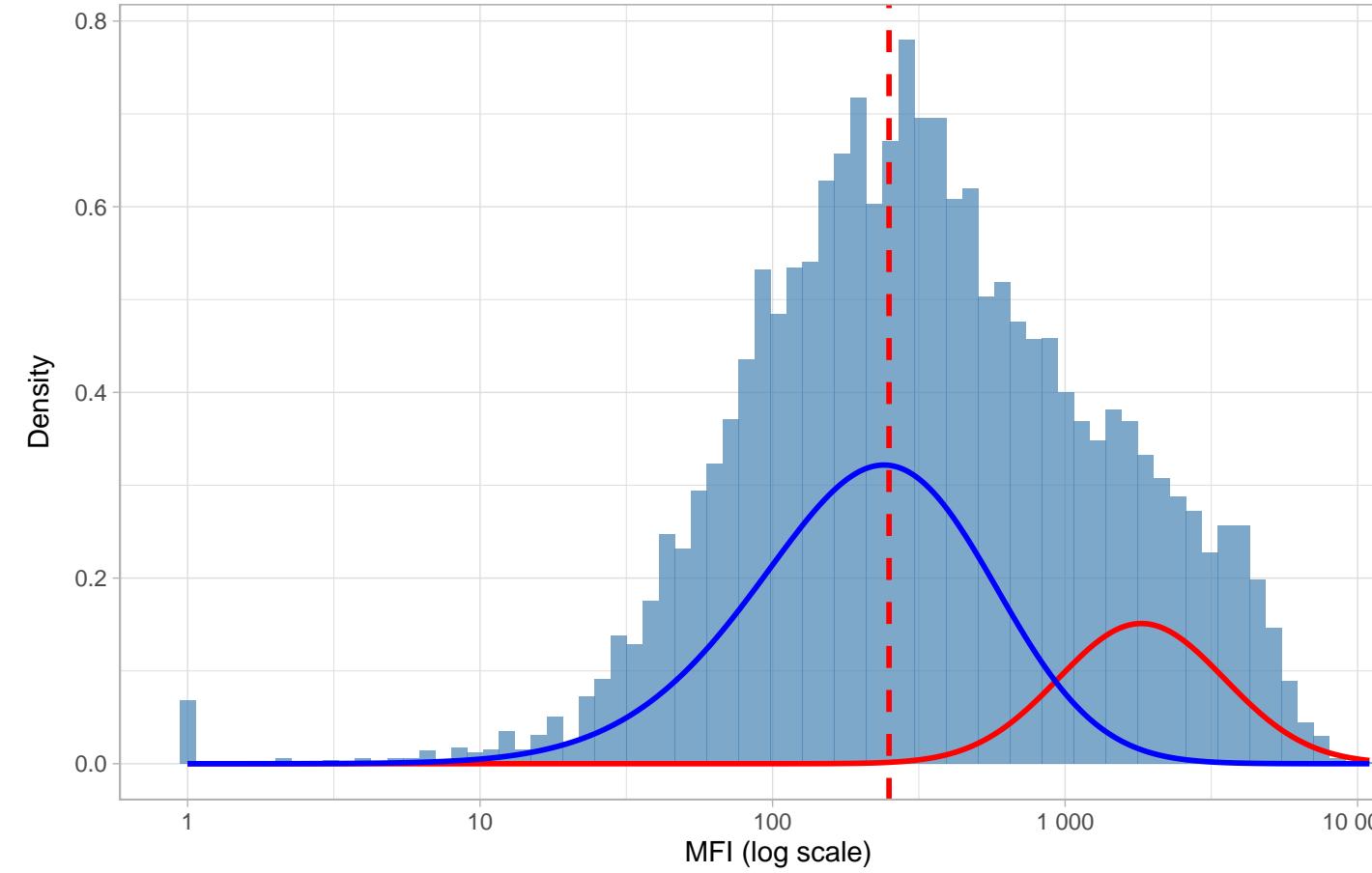


Comprehensive Diagnostics: jcv_vp1

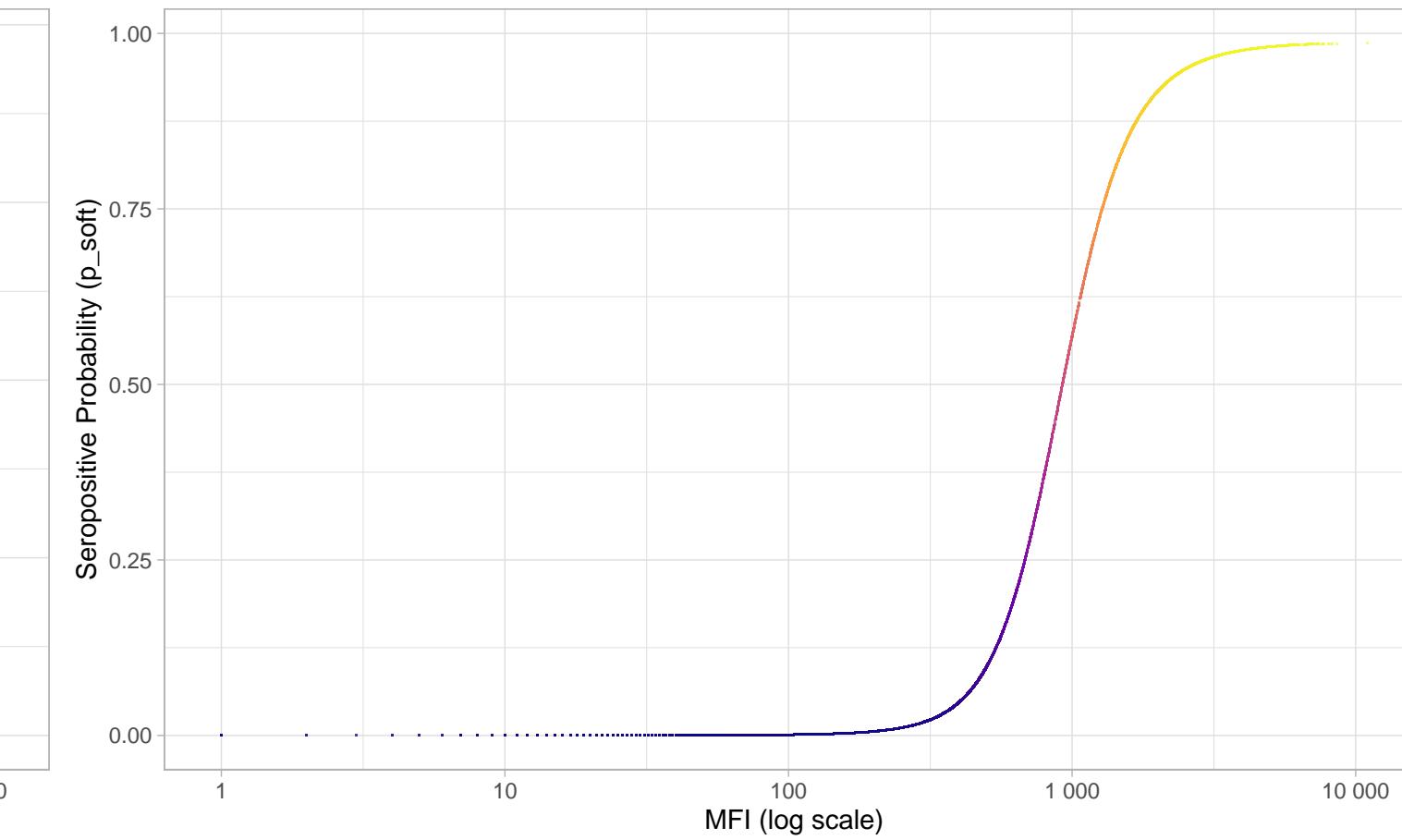
N=9424 | >0.95=824 | <0.05=5408 | Ambig=3192

MFI Distribution: jcv_vp1

BL Hard Threshold = 250

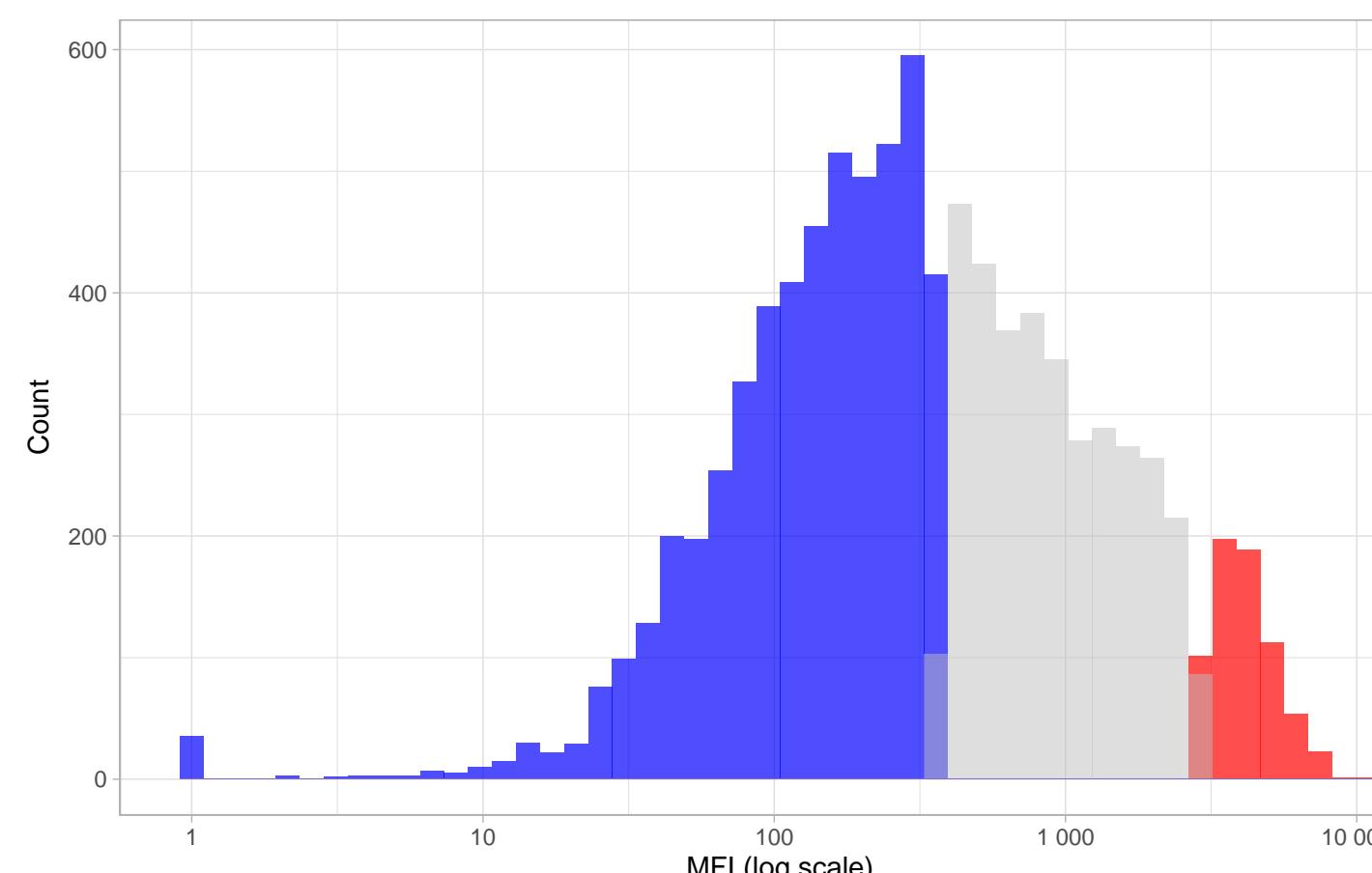


IgG vs Seropositive Probability: jcv_vp1



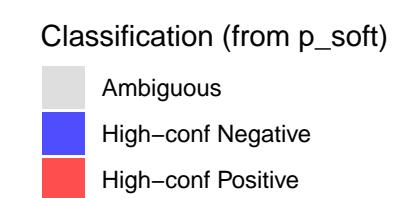
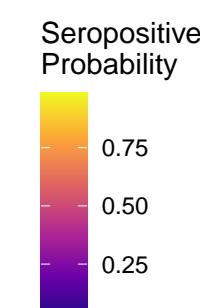
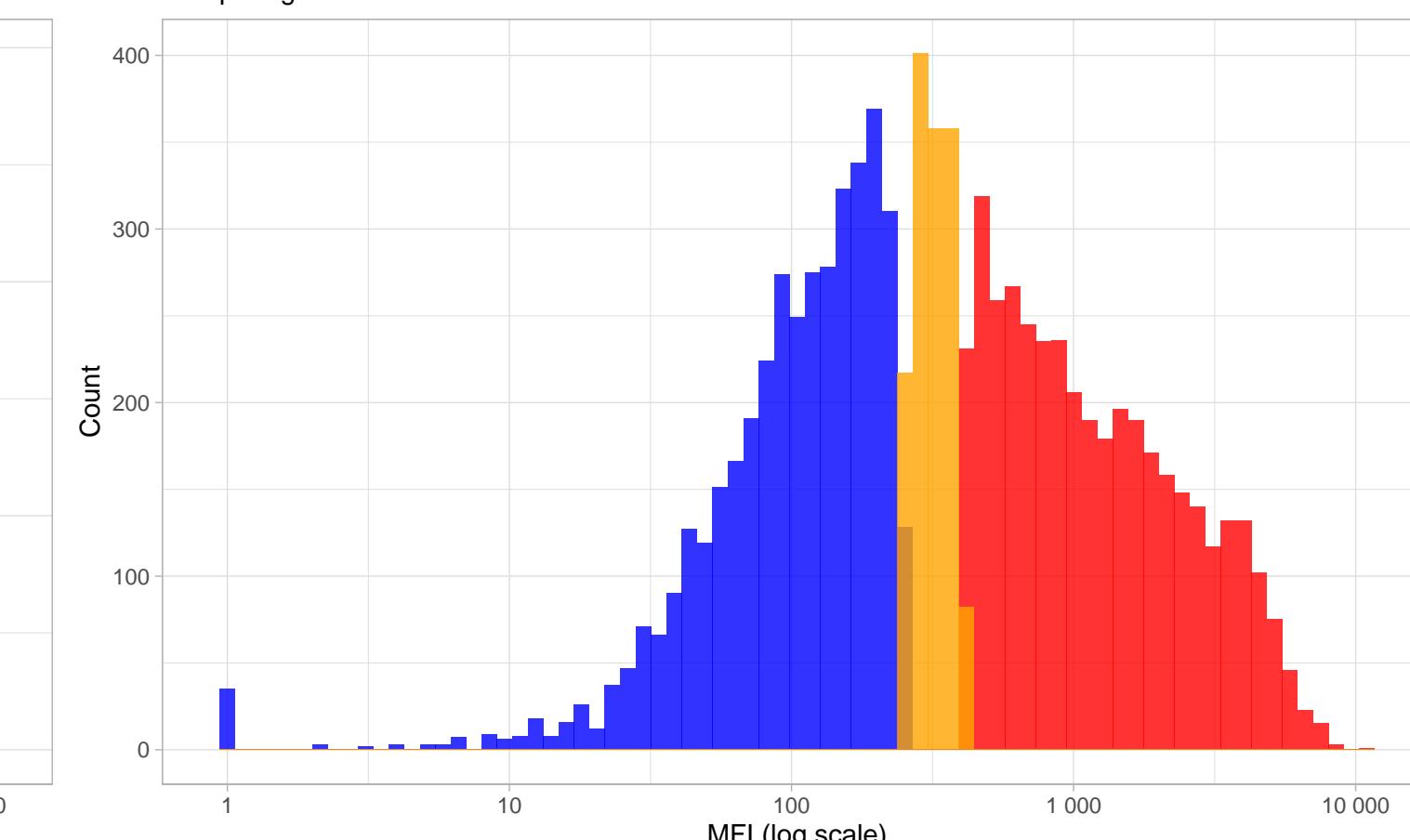
Distribution by Confidence: jcv_vp1

Prob threshold = 0.96

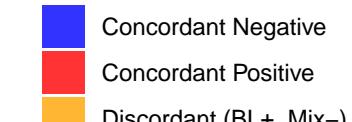


Phenotype Distribution by Classification: jcv_vp1

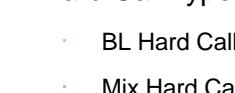
Comparing BL vs. Mixture-Model Hard Calls



Classification

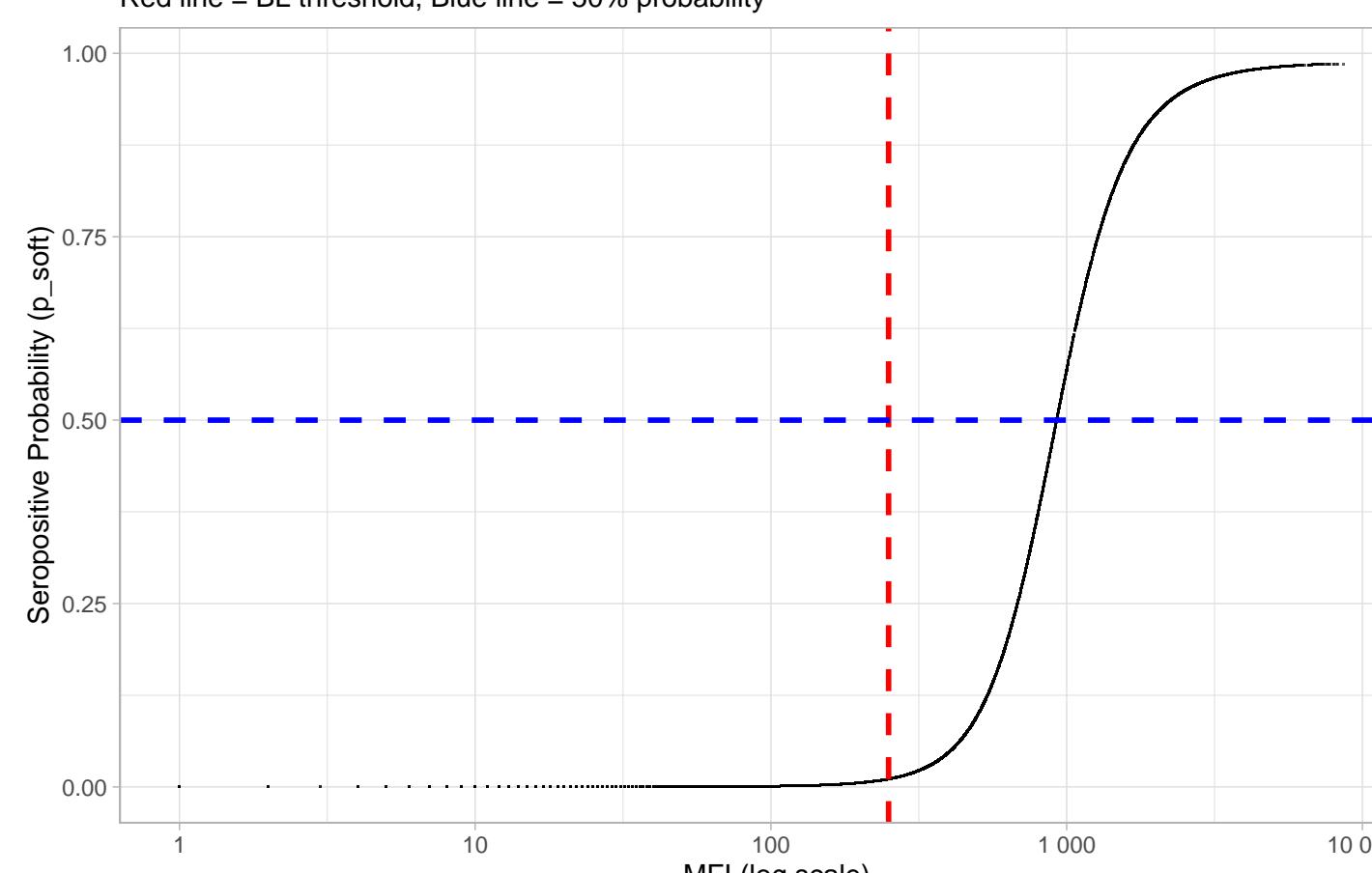


Hard Call Type



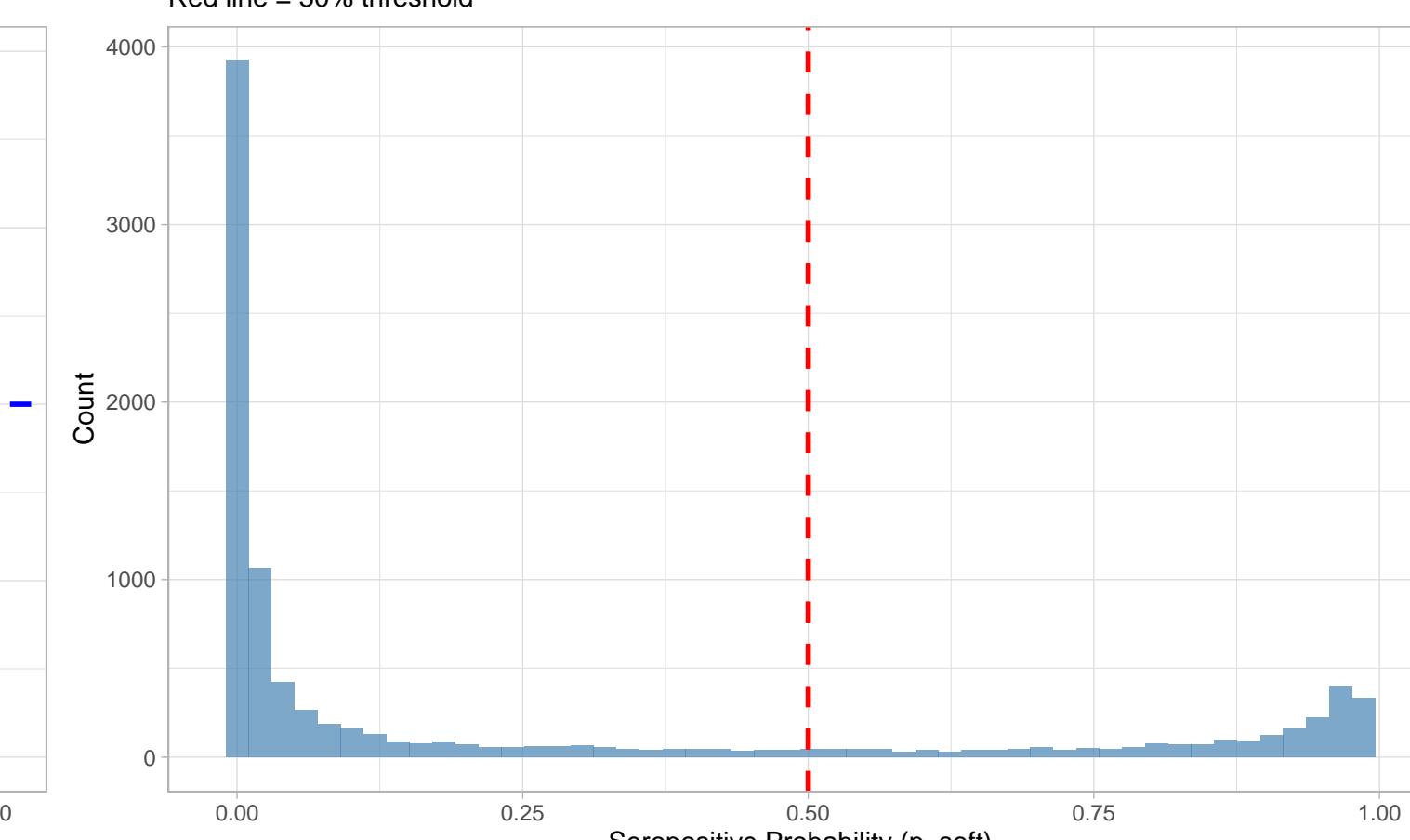
IgG Level vs. Seropositive Probability: jcv_vp1

Red line = BL threshold, Blue line = 50% probability



Distribution of Seropositive Probabilities: jcv_vp1

Red line = 50% threshold



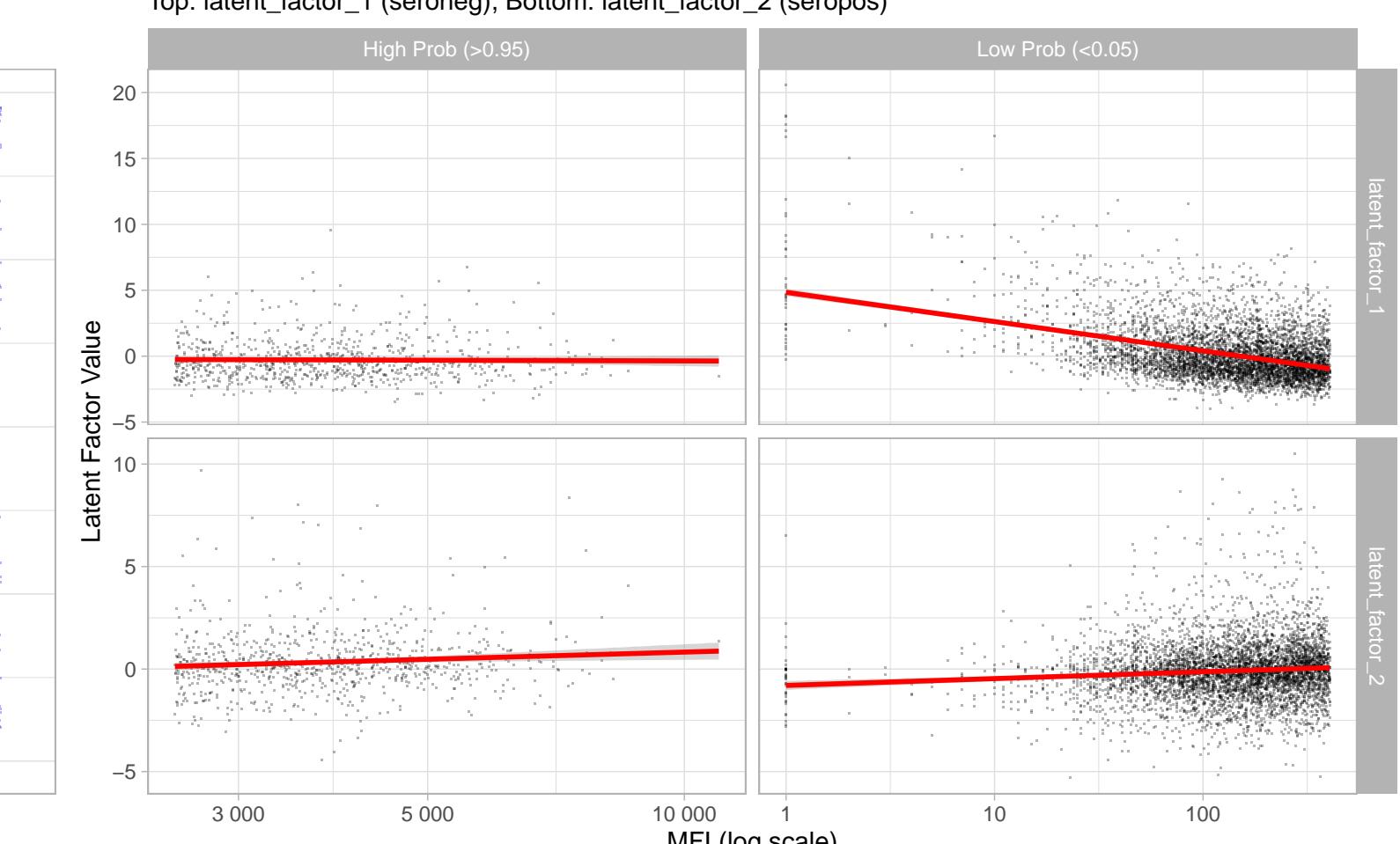
Hard Calls vs. Soft Probability: jcv_vp1

Comparing BL and Mixture-Model hard calls against p_soft



Latent Factor Components vs IgG Level: jcv_vp1

Top: latent_factor_1 (seroneg), Bottom: latent_factor_2 (seropos)

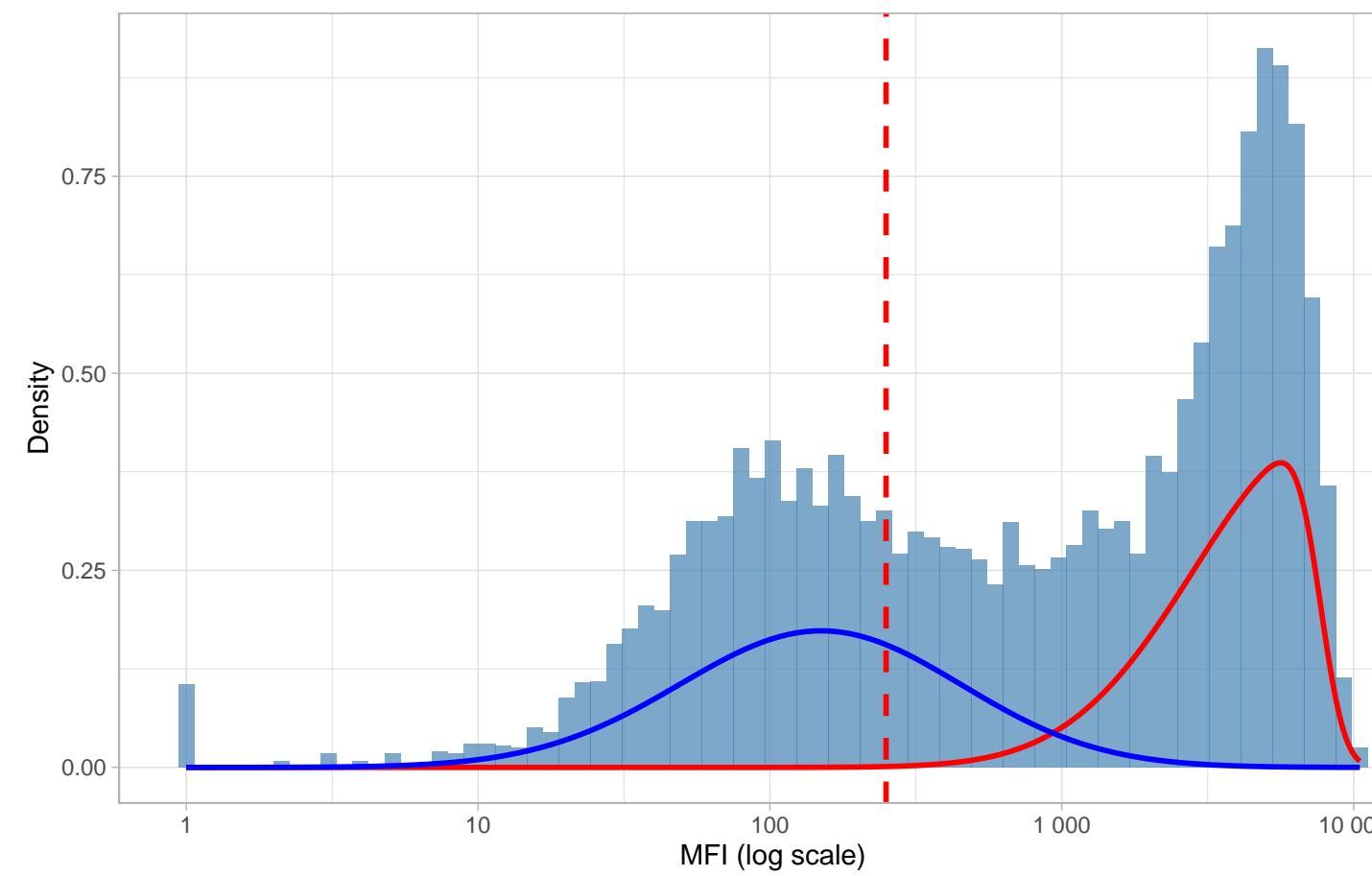


Comprehensive Diagnostics: mcv_vp1

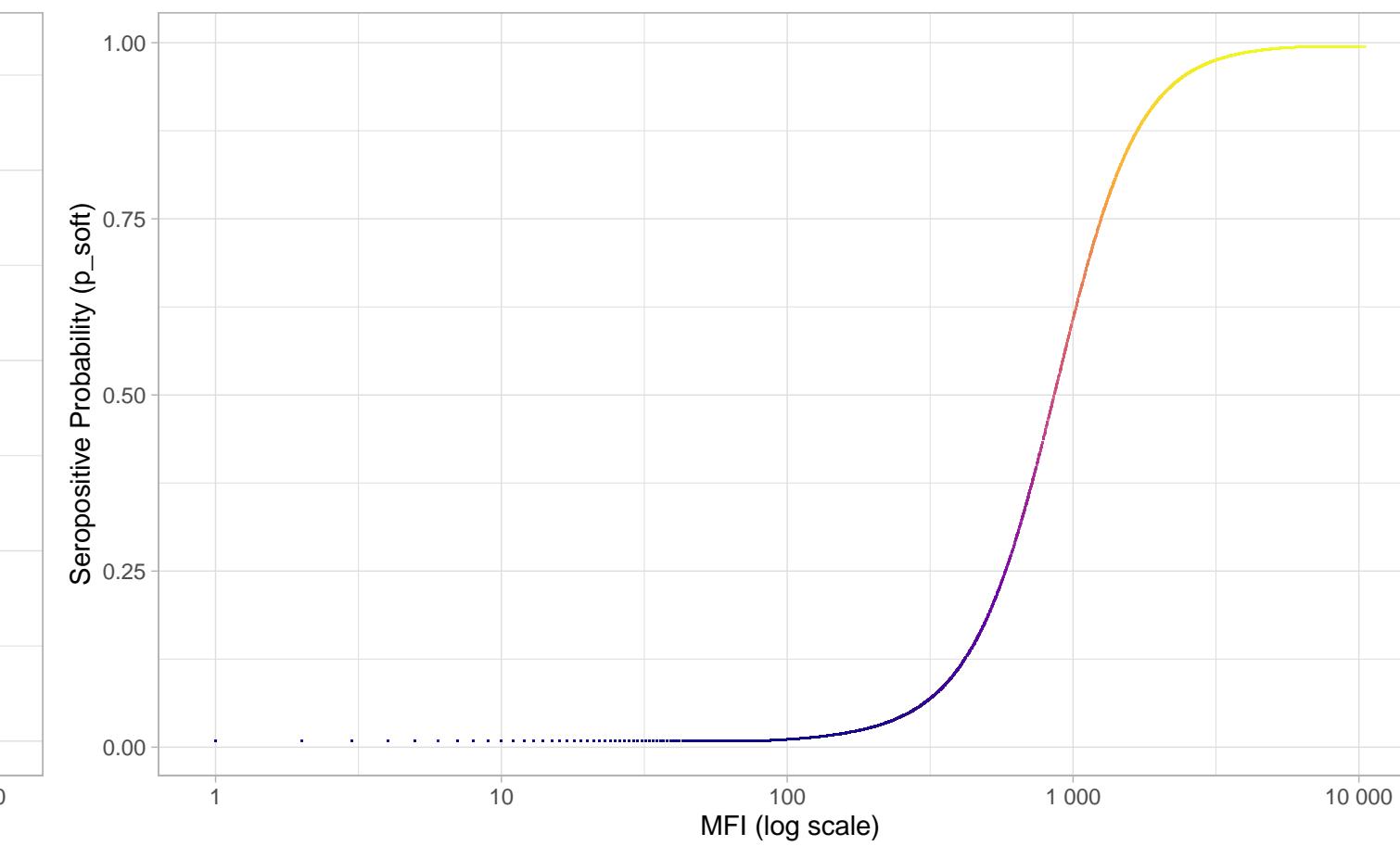
N=9424 | >0.95=3584 | <0.05=3249 | Ambig=2591

MFI Distribution: mcv_vp1

BL Hard Threshold = 250

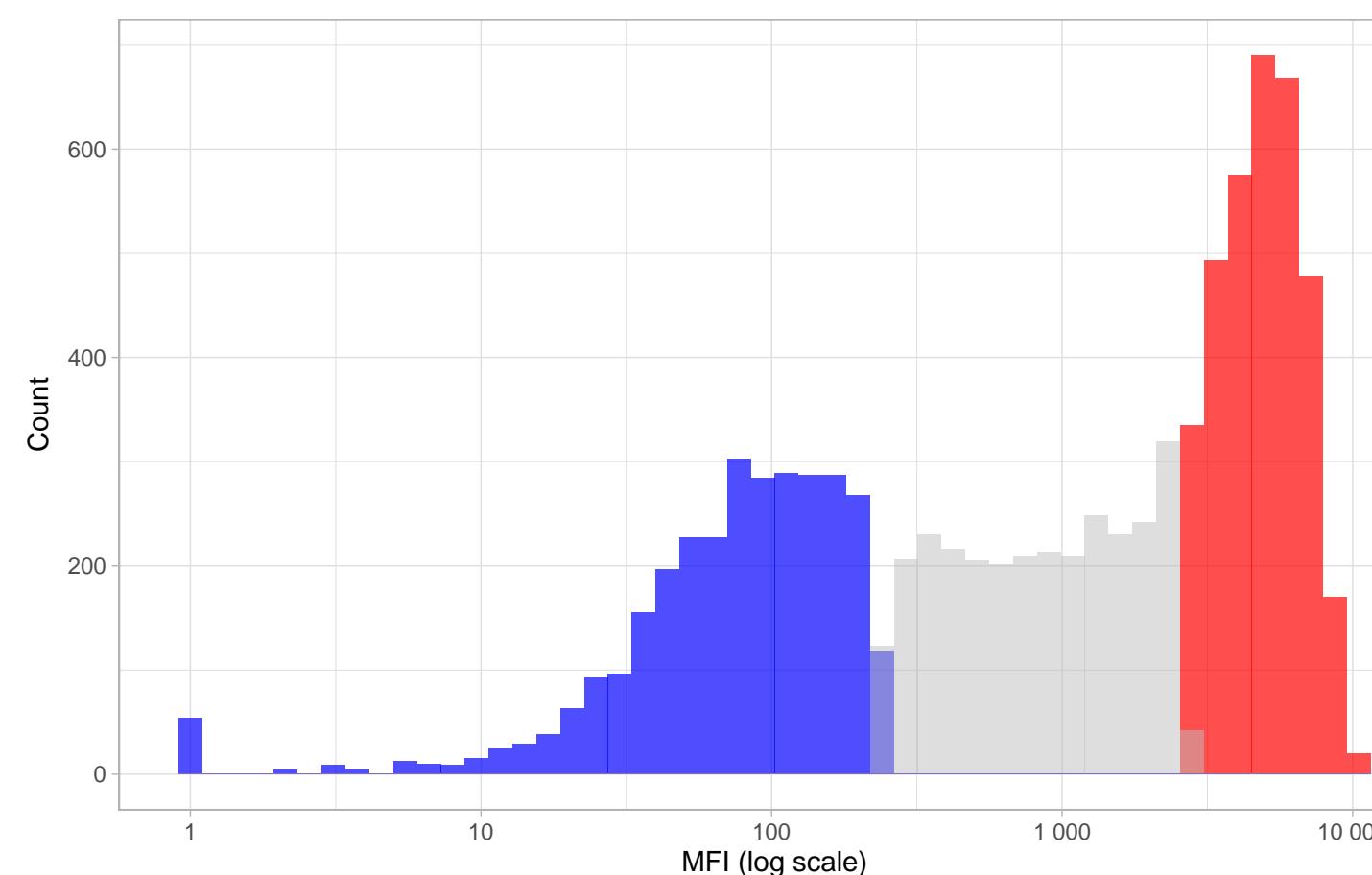


IgG vs Seropositive Probability: mcv_vp1



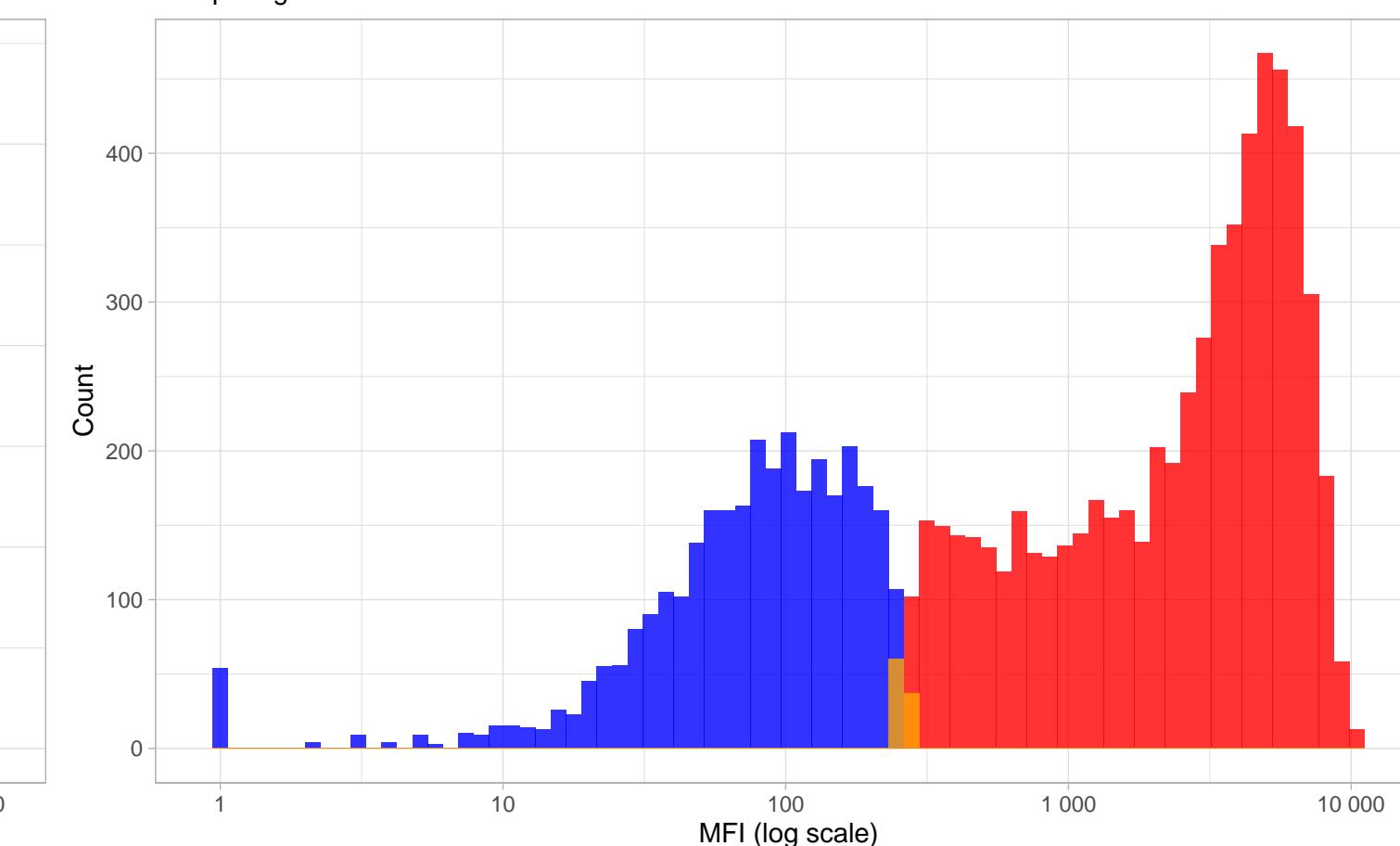
Distribution by Confidence: mcv_vp1

Prob threshold = 0.96



Phenotype Distribution by Classification: mcv_vp1

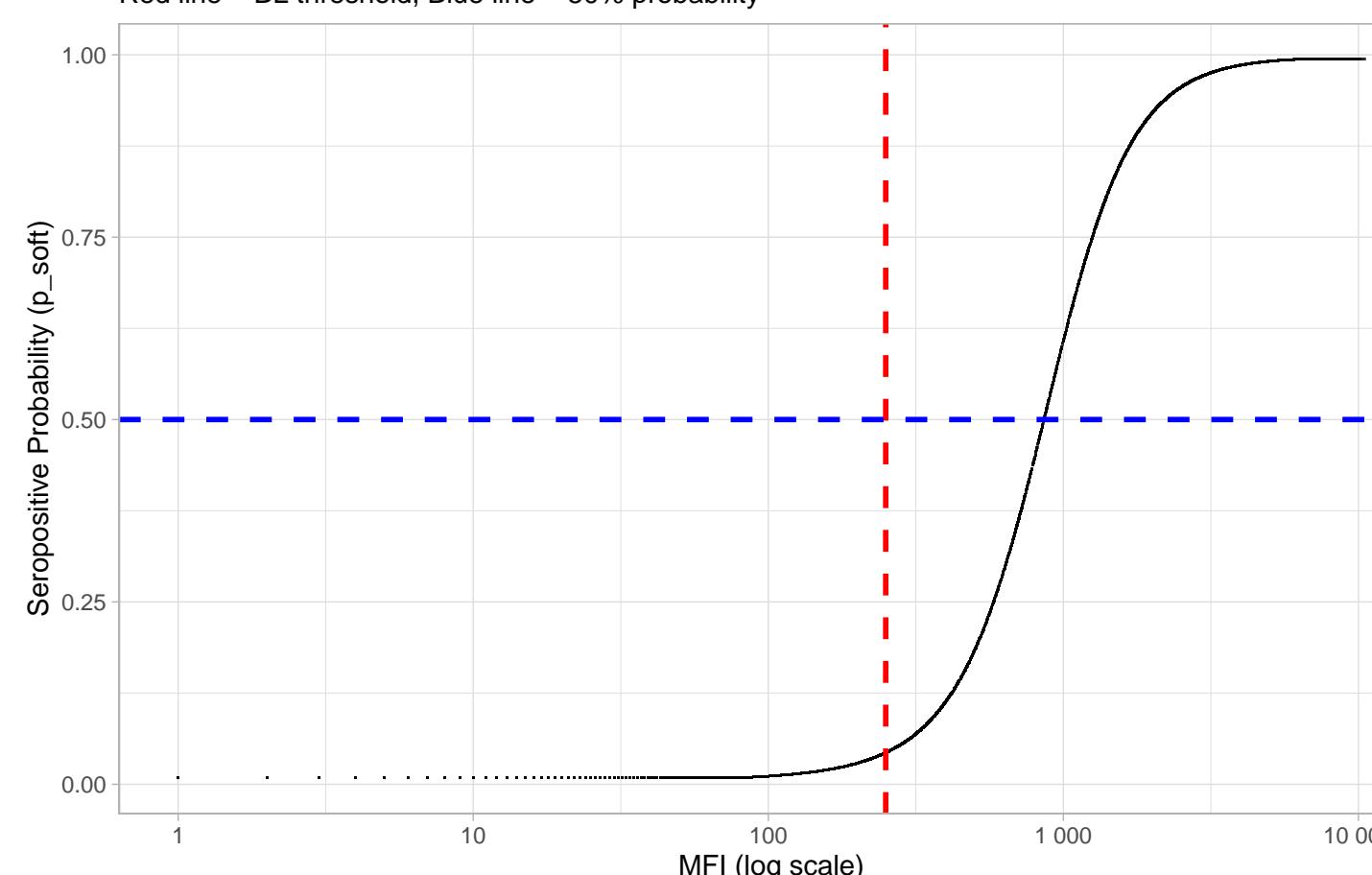
Comparing BL vs. Mixture-Model Hard Calls



- Seropositive Probability
 - 0.75 (Yellow)
 - 0.50 (Red)
 - 0.25 (Dark Purple)
- Classification (from p_soft)
 - Ambiguous (Grey)
 - High-conf Negative (Blue)
 - High-conf Positive (Red)
- Classification
 - Concordant Negative (Blue)
 - Concordant Positive (Red)
 - Discordant (BL+, Mix-) (Orange)
- Hard Call Type
 - BL Hard Call (Red Dots)
 - Mix Hard Call (Blue Dots)

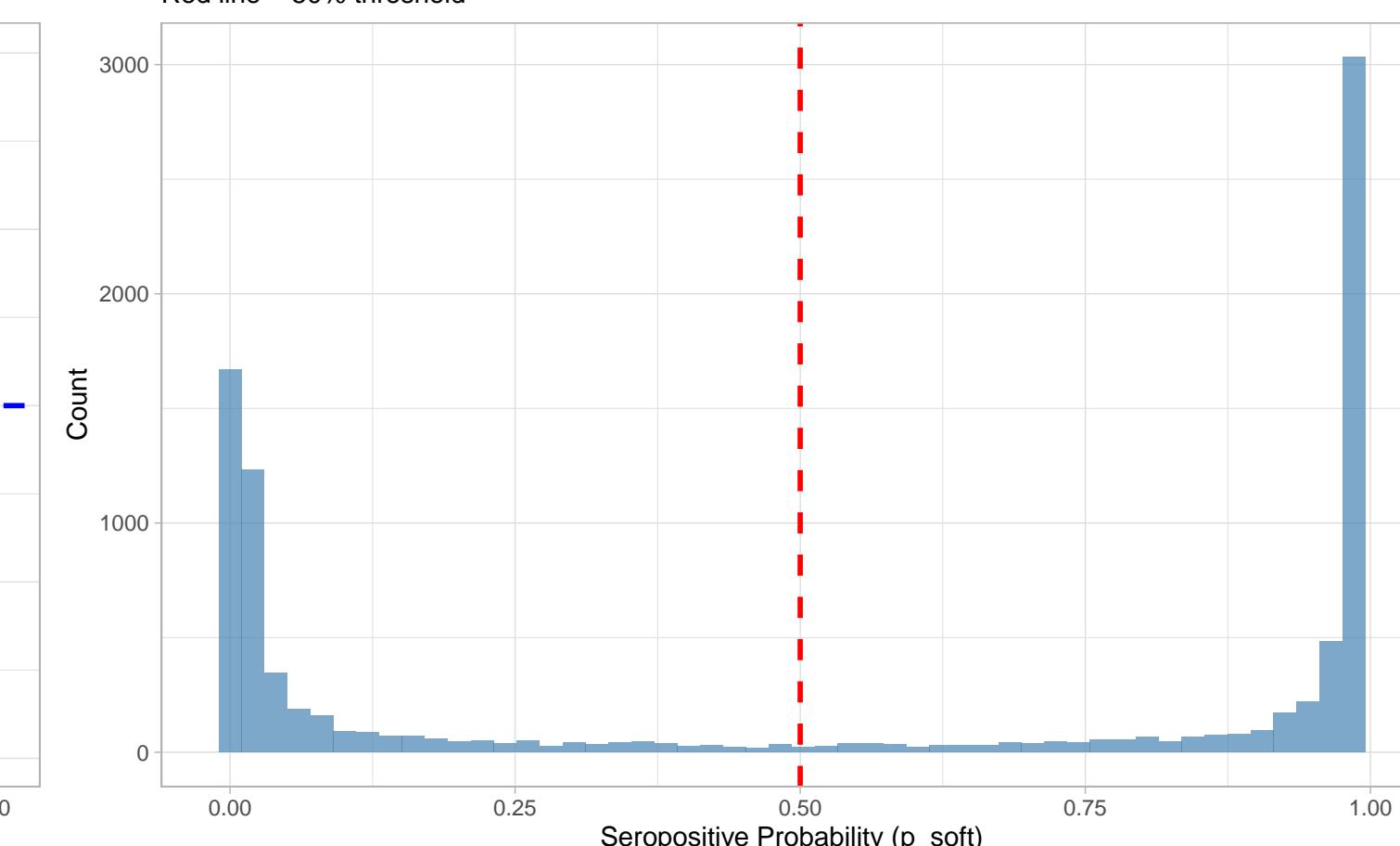
IgG Level vs. Seropositive Probability: mcv_vp1

Red line = BL threshold, Blue line = 50% probability



Distribution of Seropositive Probabilities: mcv_vp1

Red line = 50% threshold



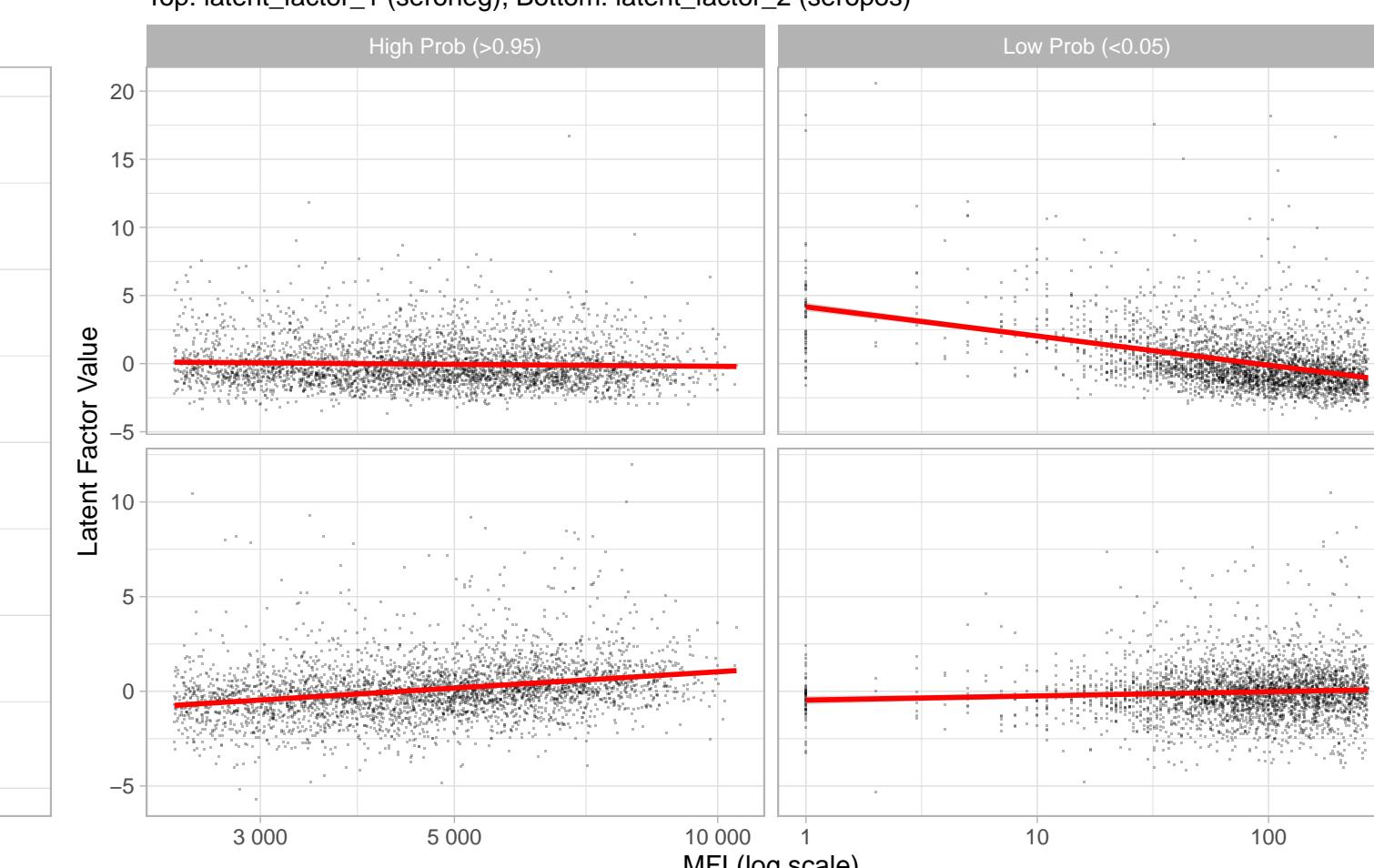
Hard Calls vs. Soft Probability: mcv_vp1

Comparing BL and Mixture-Model hard calls against p_soft



Latent Factor Components vs IgG Level: mcv_vp1

Top: latent_factor_1 (seroneg), Bottom: latent_factor_2 (seropos)

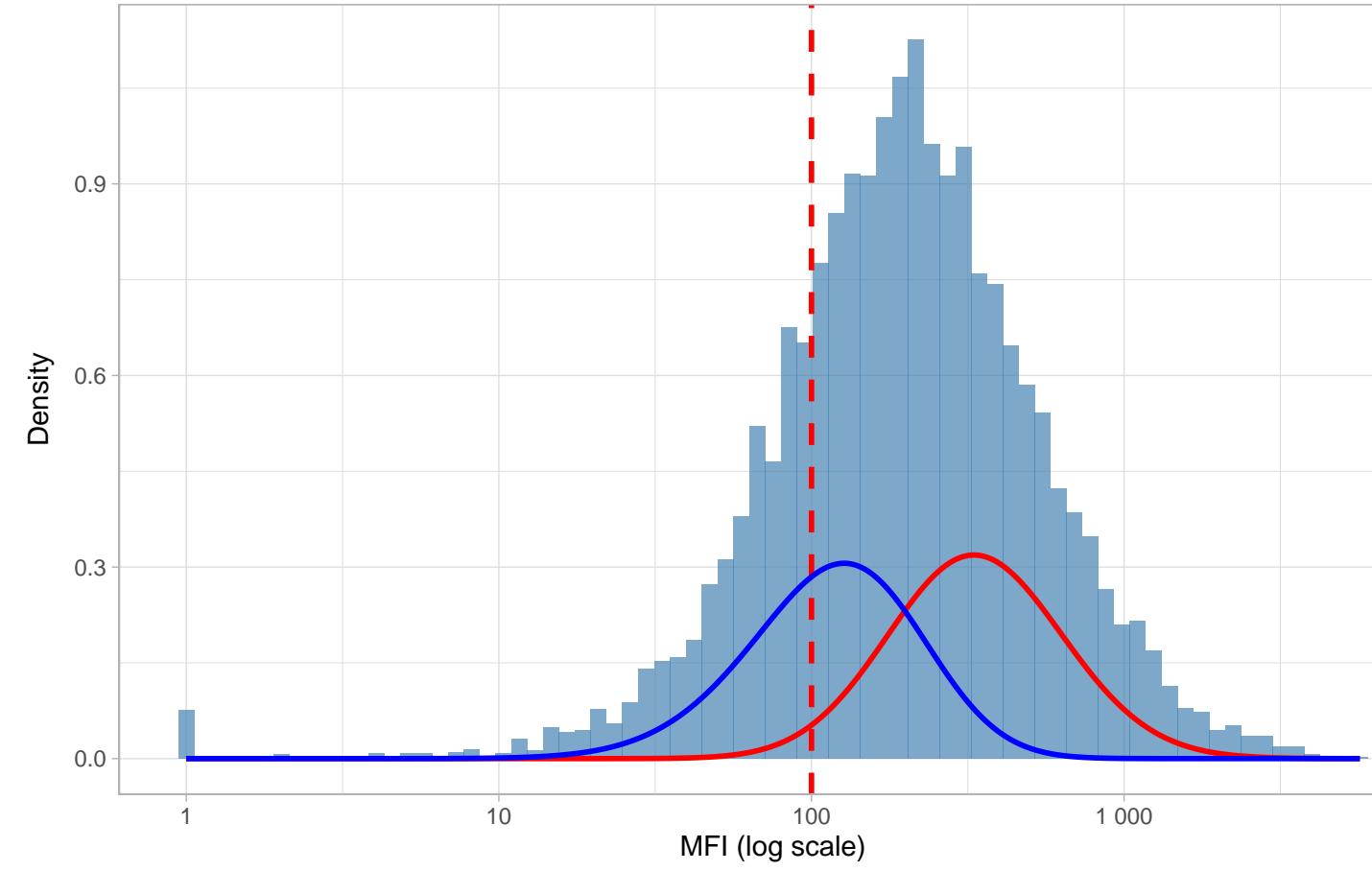


Comprehensive Diagnostics: hhv6_ie1a

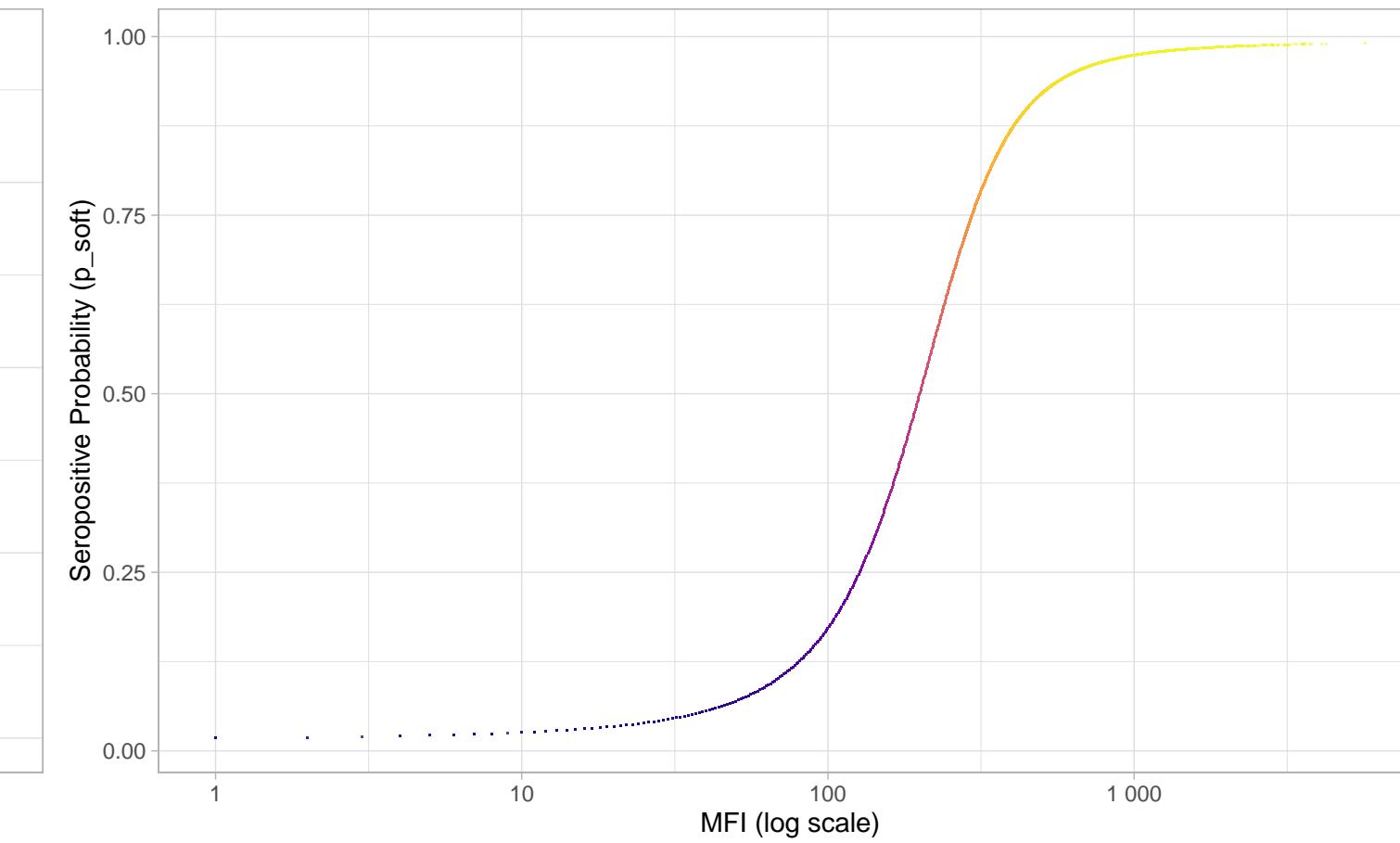
N=9424 | >0.95=1036 | <0.05=401 | Ambig=7987

MFI Distribution: hhv6_ie1a

BL Hard Threshold = 100

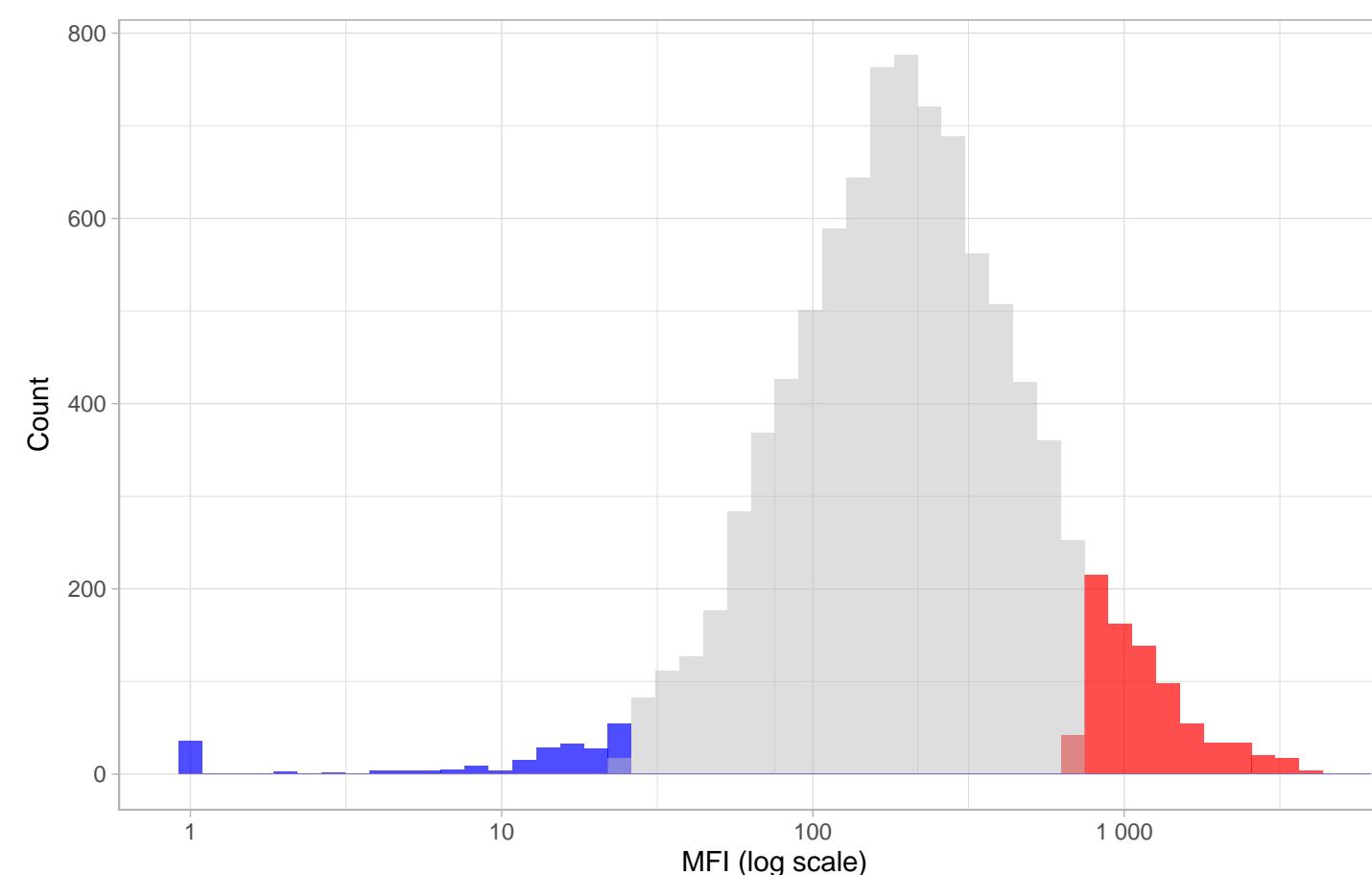


IgG vs Seropositive Probability: hhv6_ie1a



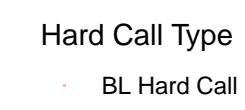
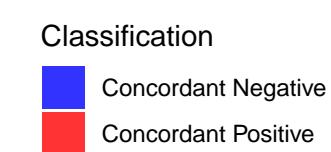
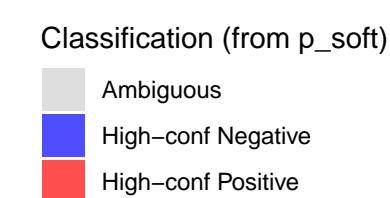
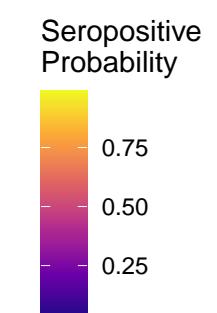
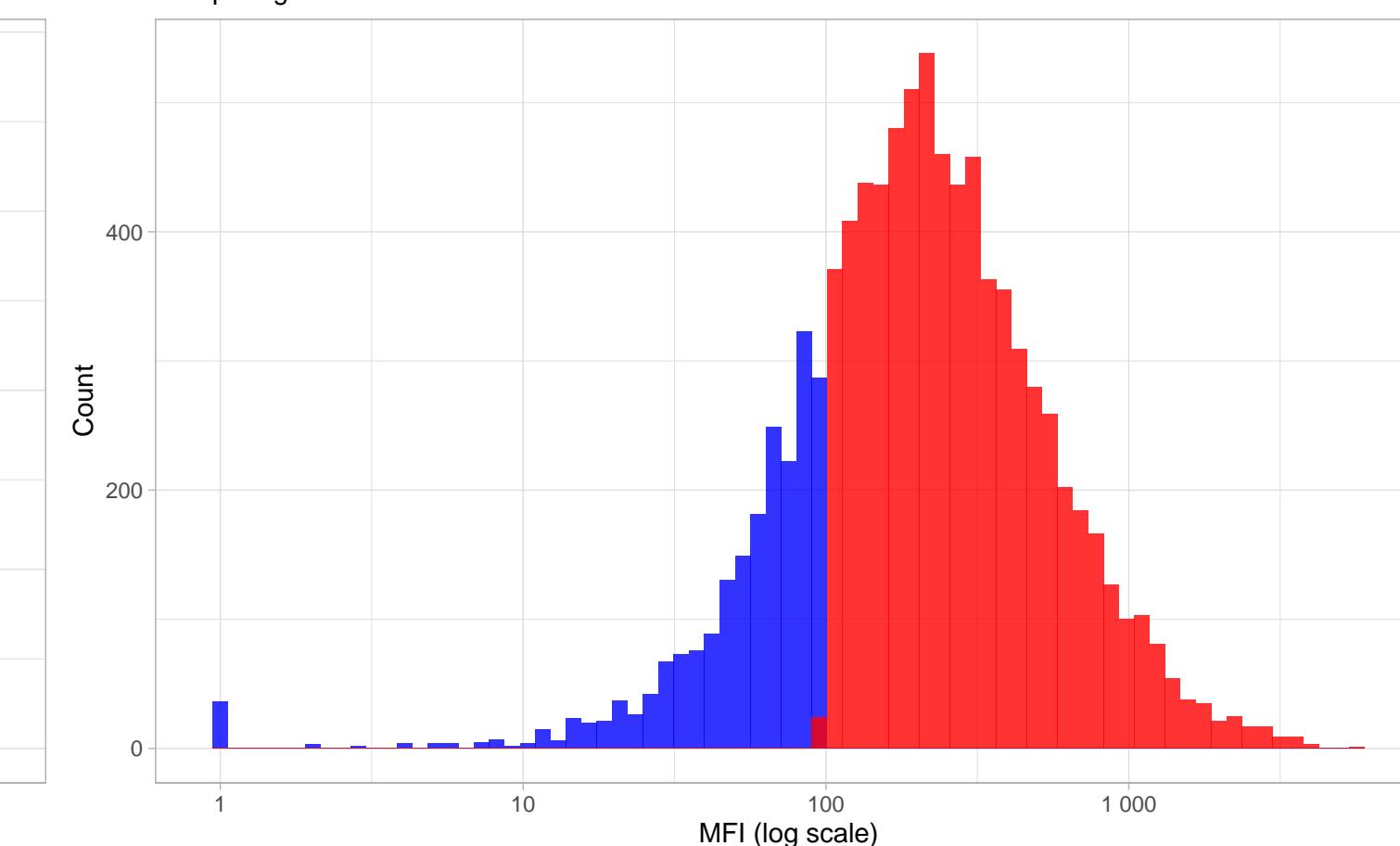
Distribution by Confidence: hhv6_ie1a

Prob threshold = 0.96



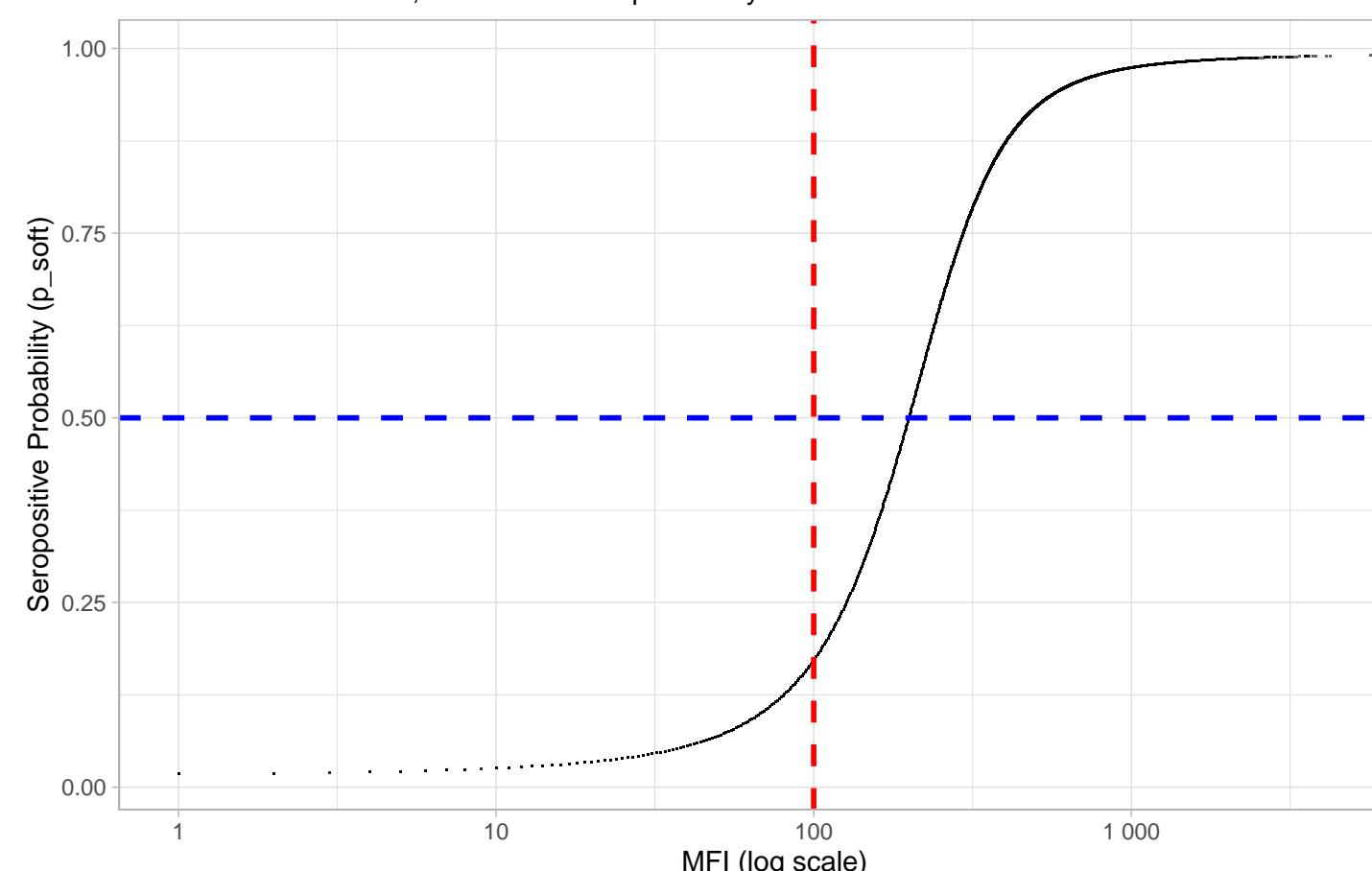
Phenotype Distribution by Classification: hhv6_ie1a

Comparing BL vs. Mixture-Model Hard Calls



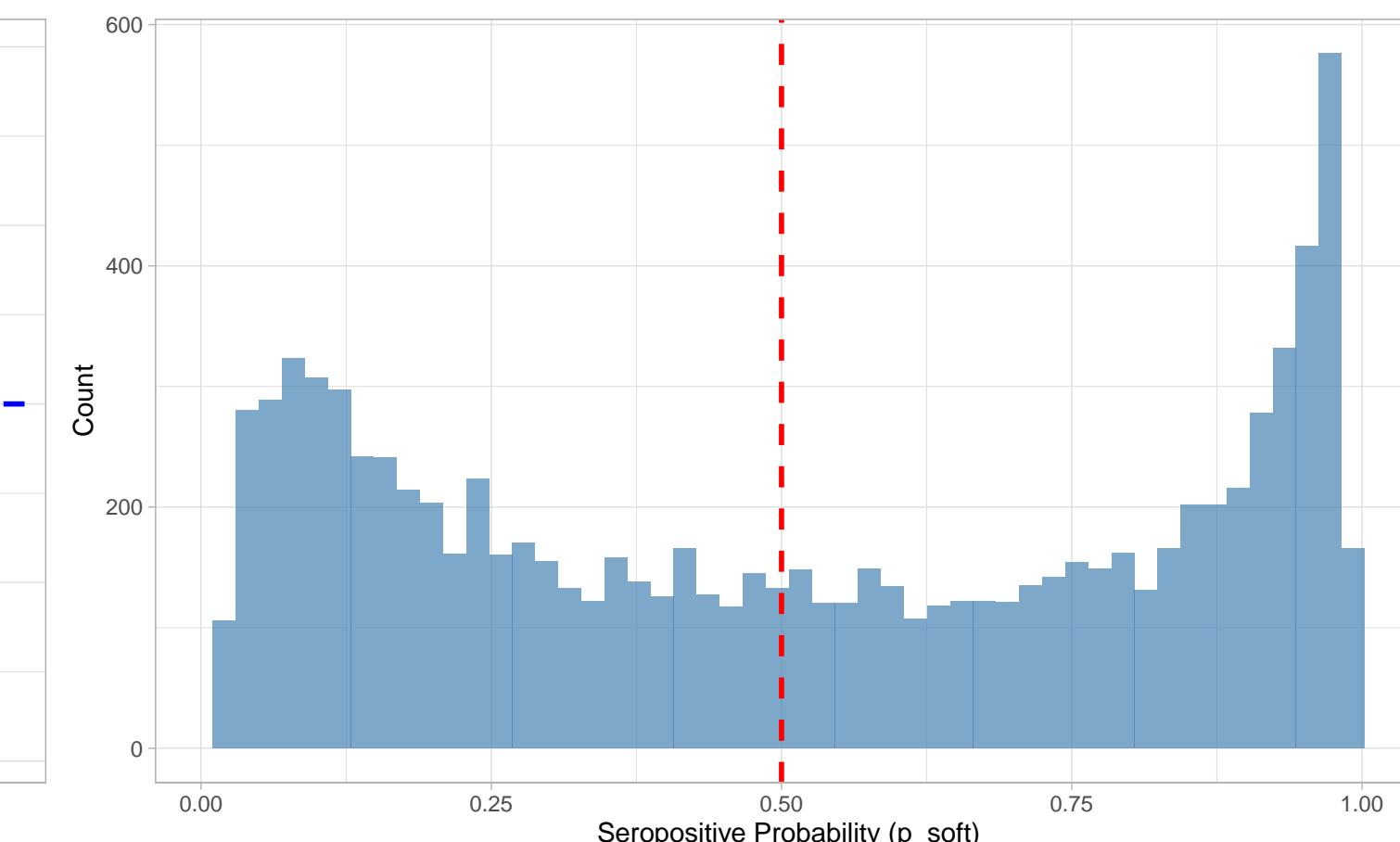
IgG Level vs. Seropositive Probability: hhv6_ie1a

Red line = BL threshold, Blue line = 50% probability



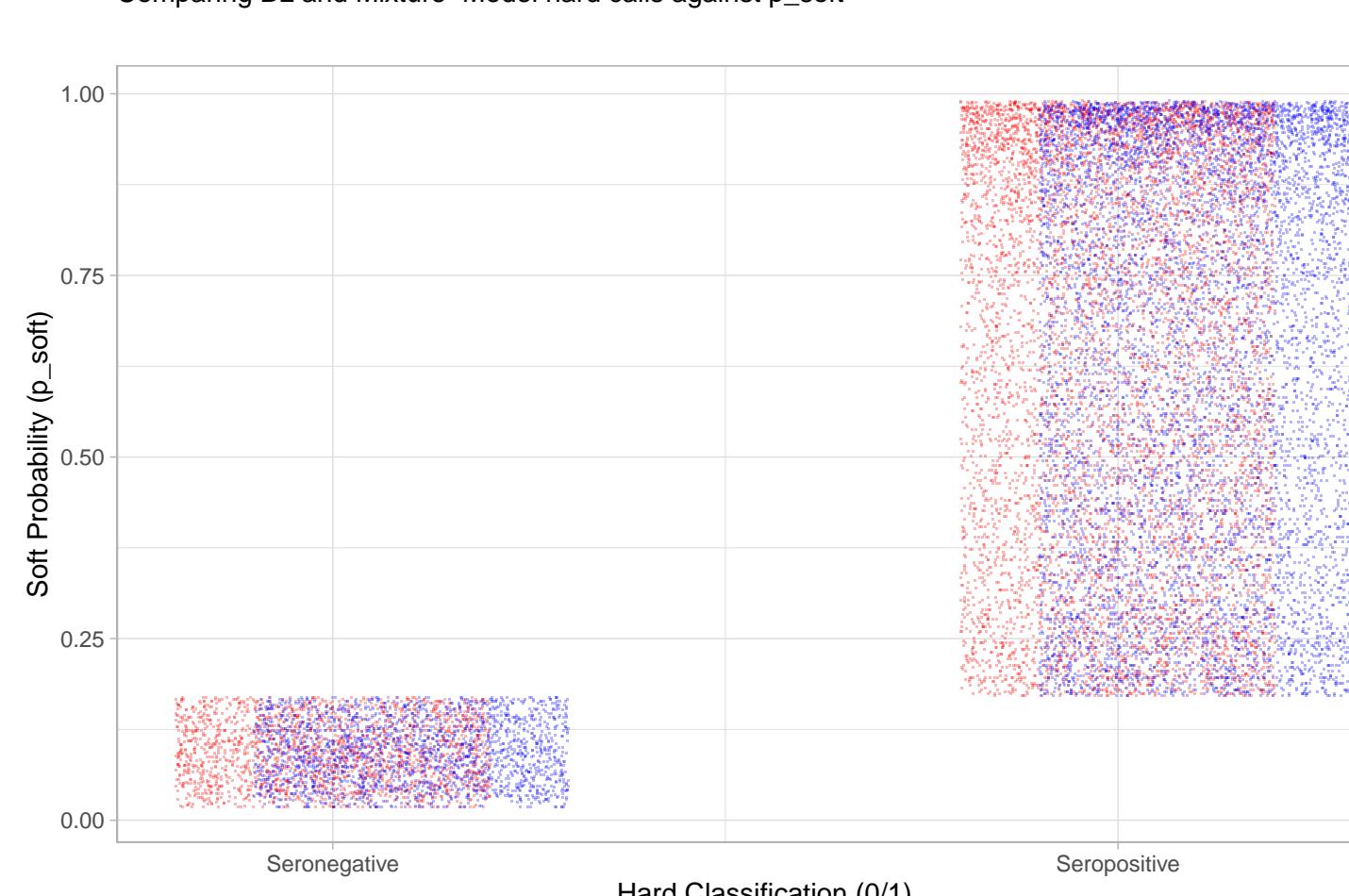
Distribution of Seropositive Probabilities: hhv6_ie1a

Red line = 50% threshold



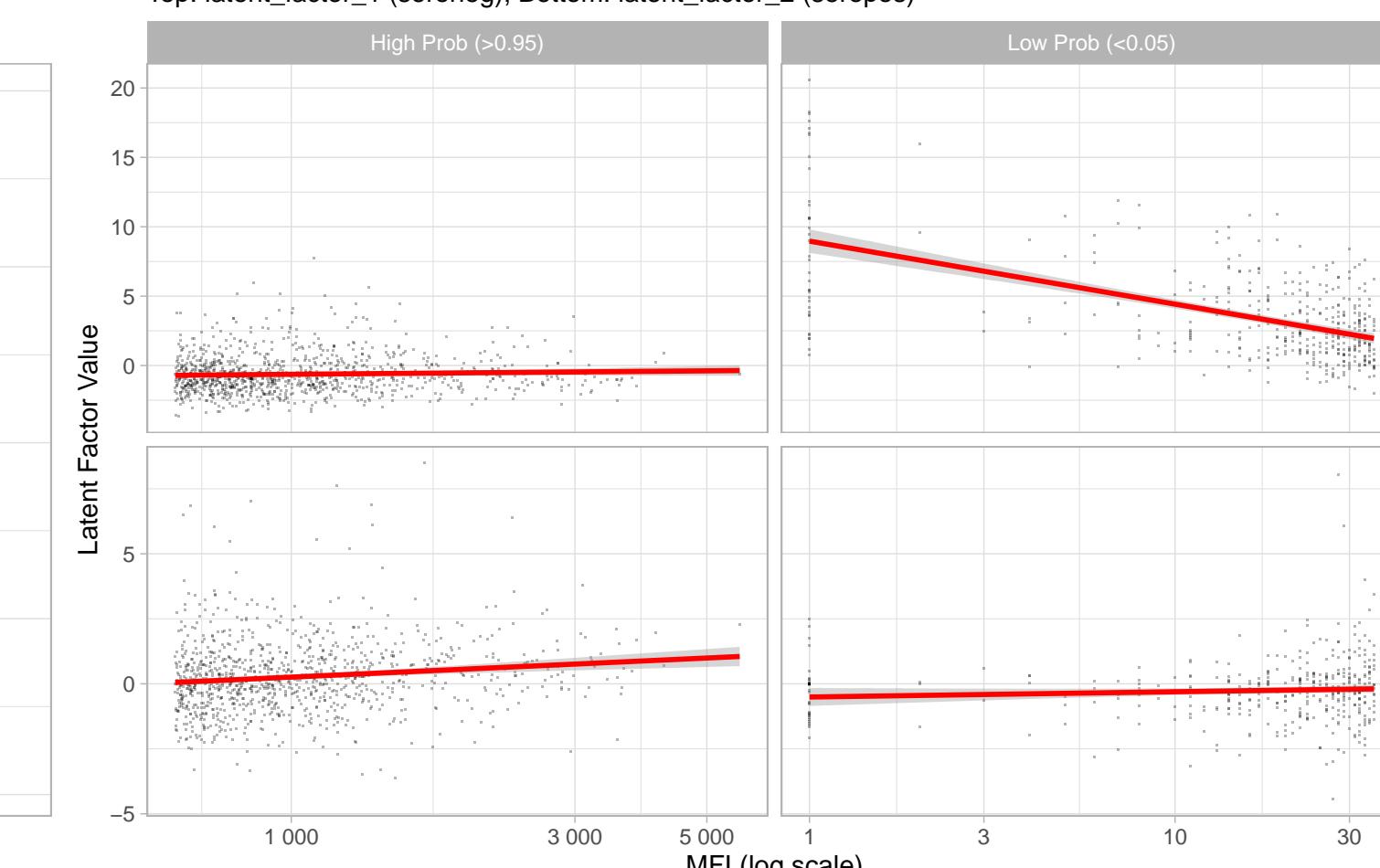
Hard Calls vs. Soft Probability: hhv6_ie1a

Comparing BL and Mixture-Model hard calls against p_soft



Latent Factor Components vs IgG Level: hhv6_ie1a

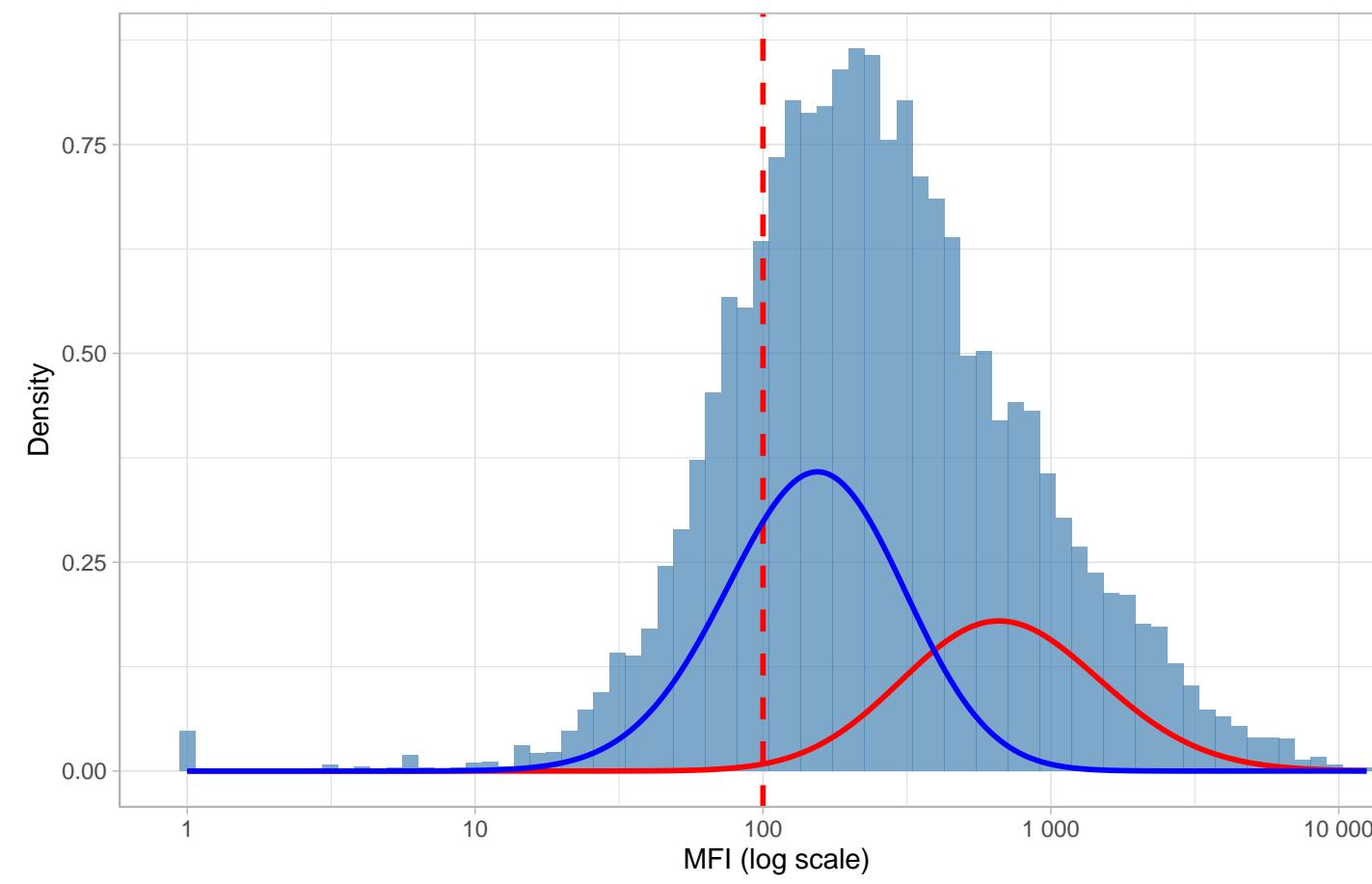
Top: latent_factor_1 (seroneg), Bottom: latent_factor_2 (seropos)



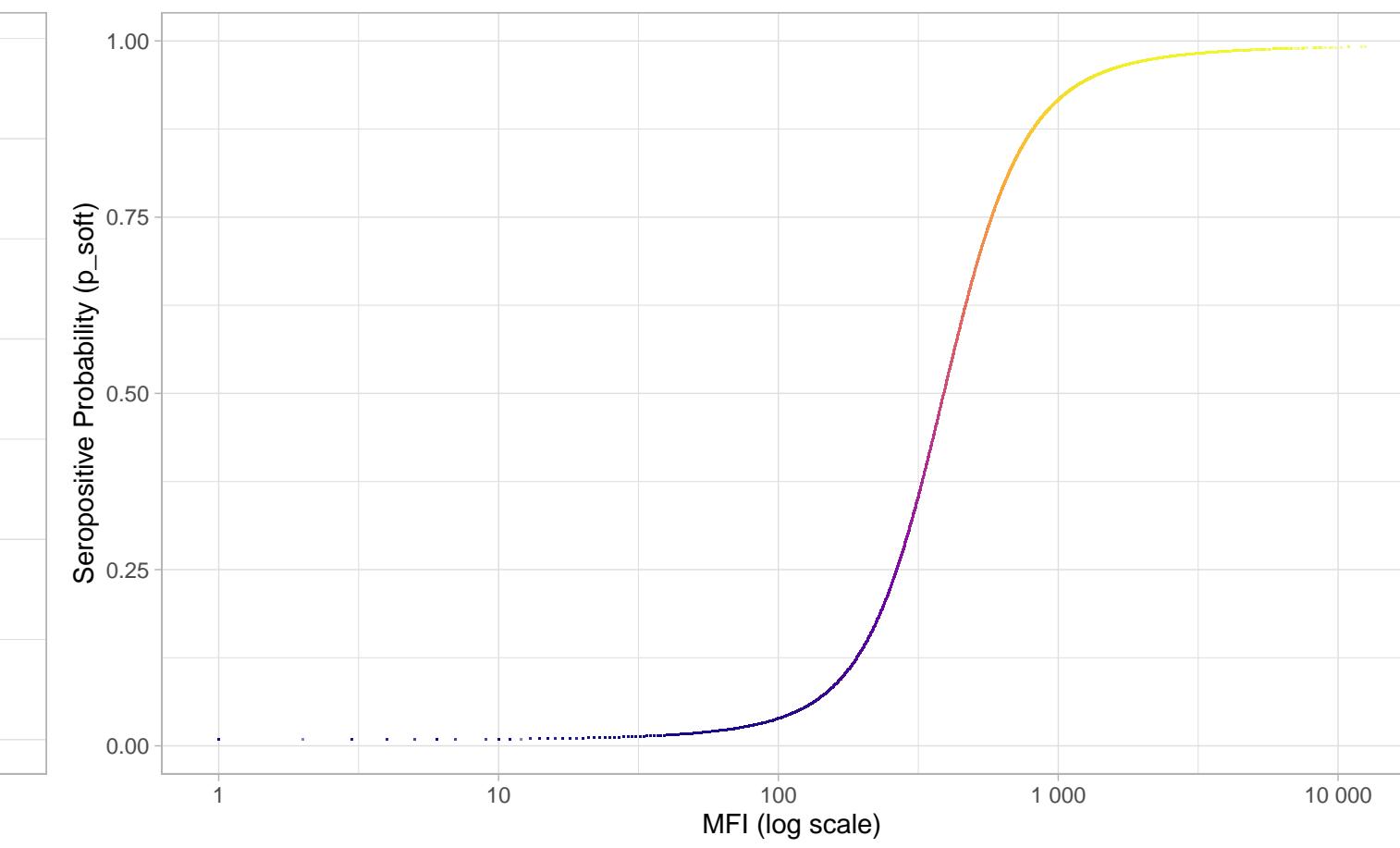
Comprehensive Diagnostics: hhv6_ie1b

N=9424 | >0.95=833 | <0.05=2415 | Ambig=6176

MFI Distribution: hhv6_ie1b
BL Hard Threshold = 100

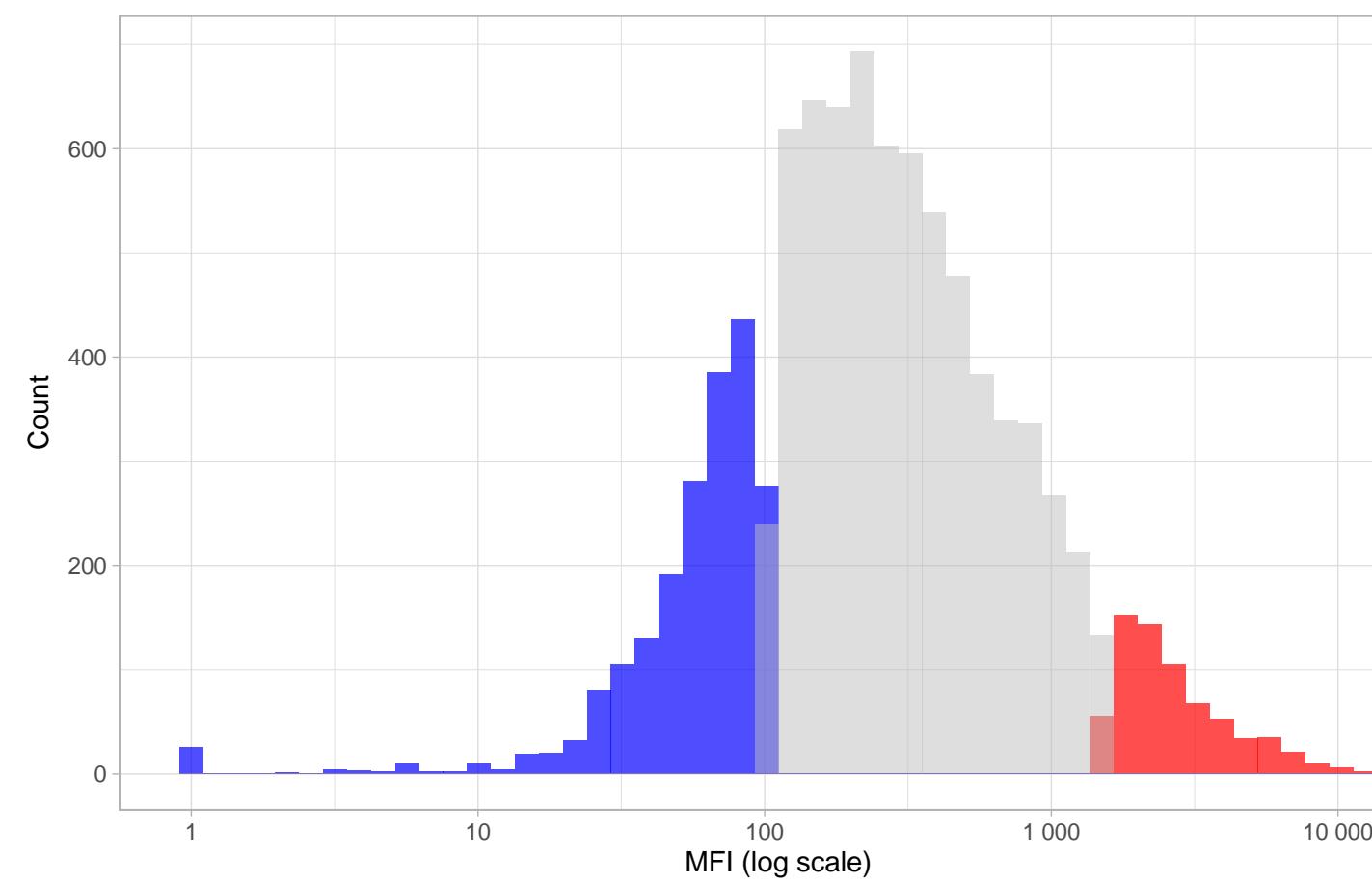


IgG vs Seropositive Probability: hhv6_ie1b



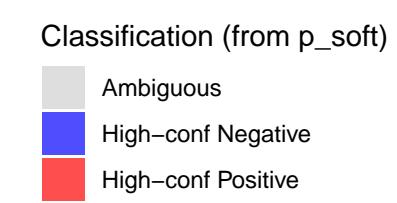
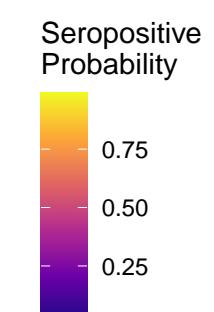
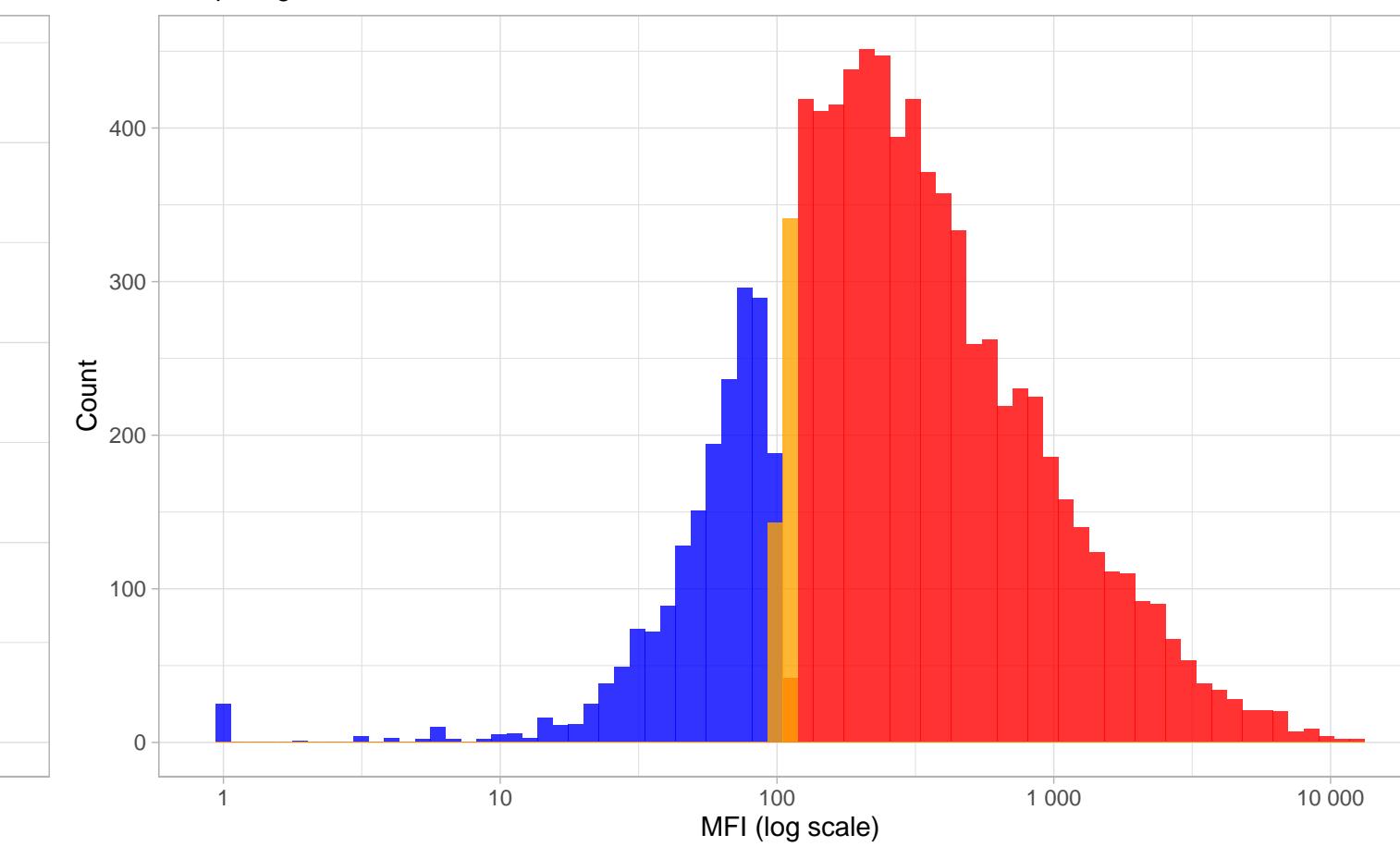
Distribution by Confidence: hhv6_ie1b

Prob threshold = 0.96

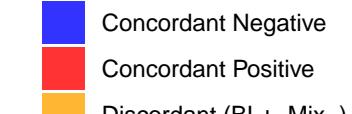


Phenotype Distribution by Classification: hhv6_ie1b

Comparing BL vs. Mixture-Model Hard Calls



Classification

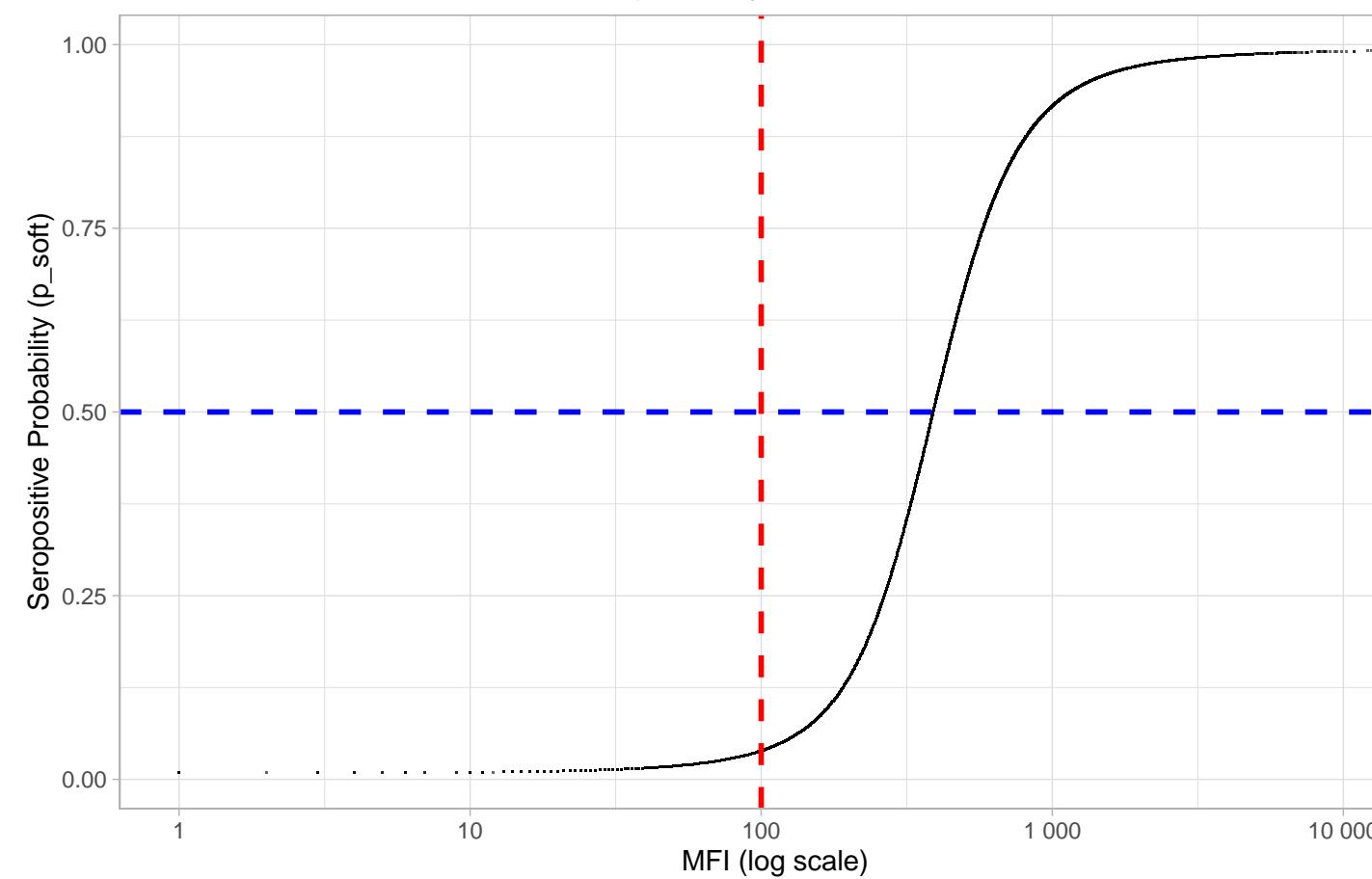


Hard Call Type



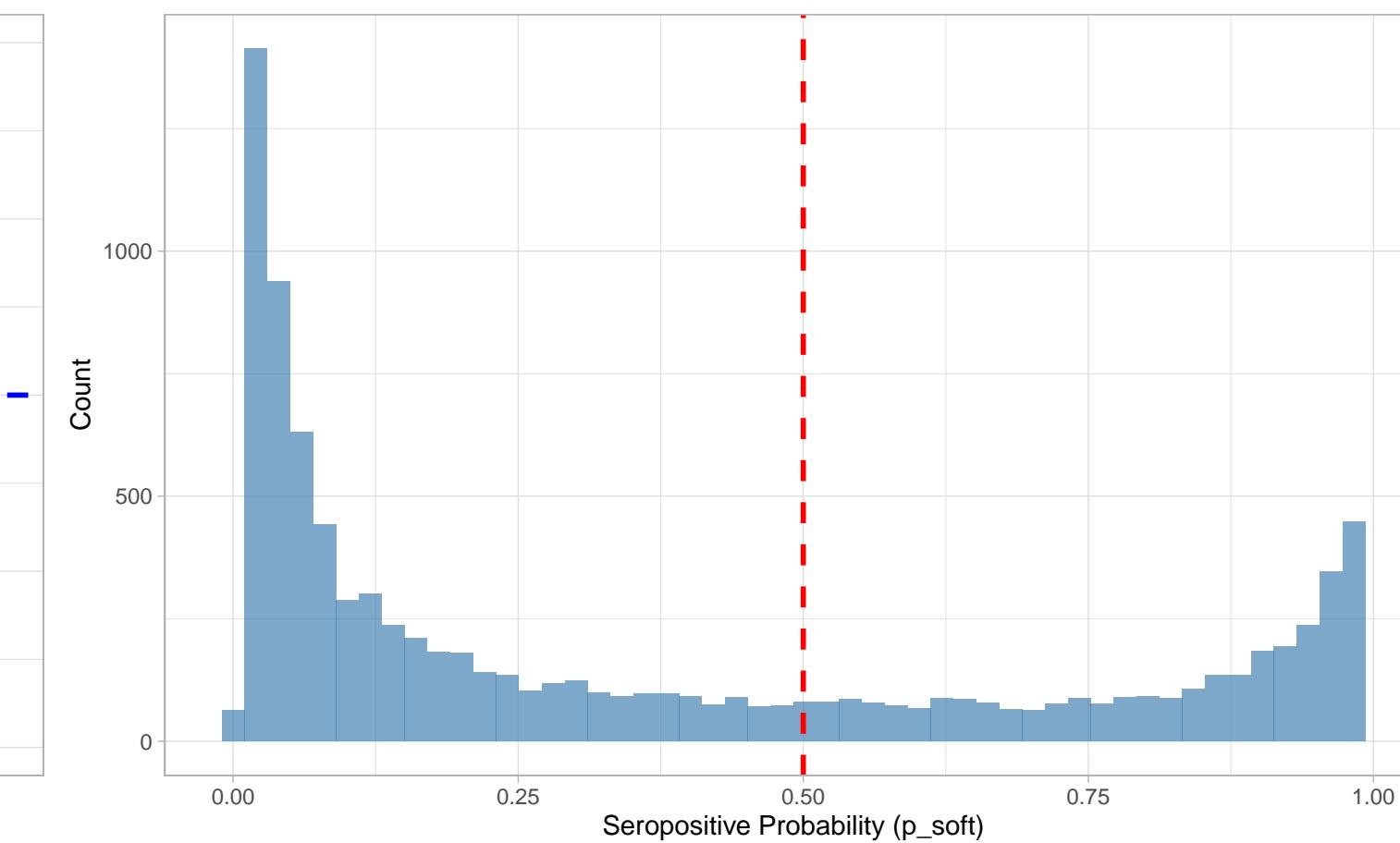
IgG Level vs. Seropositive Probability: hhv6_ie1b

Red line = BL threshold, Blue line = 50% probability



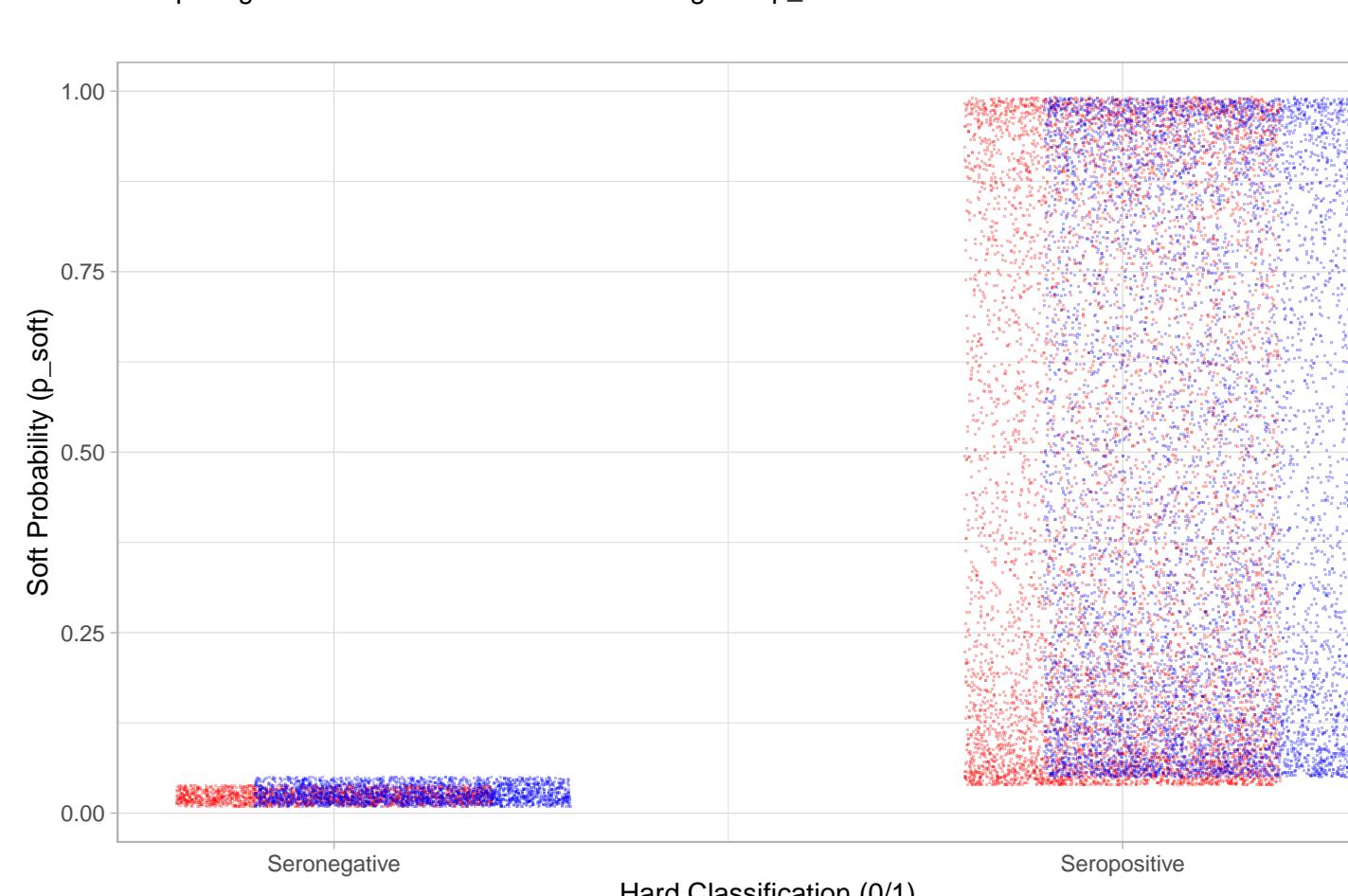
Distribution of Seropositive Probabilities: hhv6_ie1b

Red line = 50% threshold



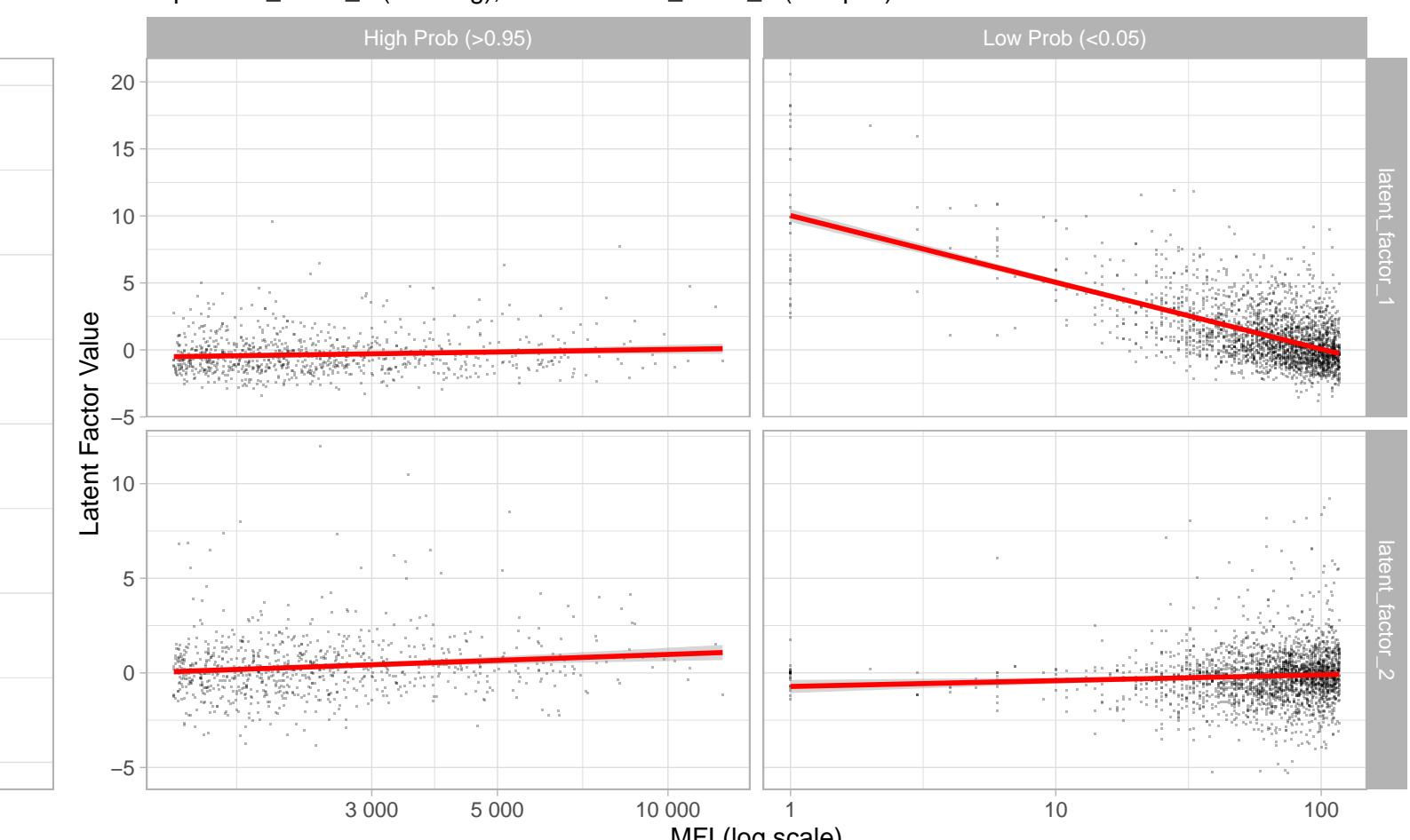
Hard Calls vs. Soft Probability: hhv6_ie1b

Comparing BL and Mixture-Model hard calls against p_soft



Latent Factor Components vs IgG Level: hhv6_ie1b

Top: latent_factor_1 (seroneg), Bottom: latent_factor_2 (seropos)

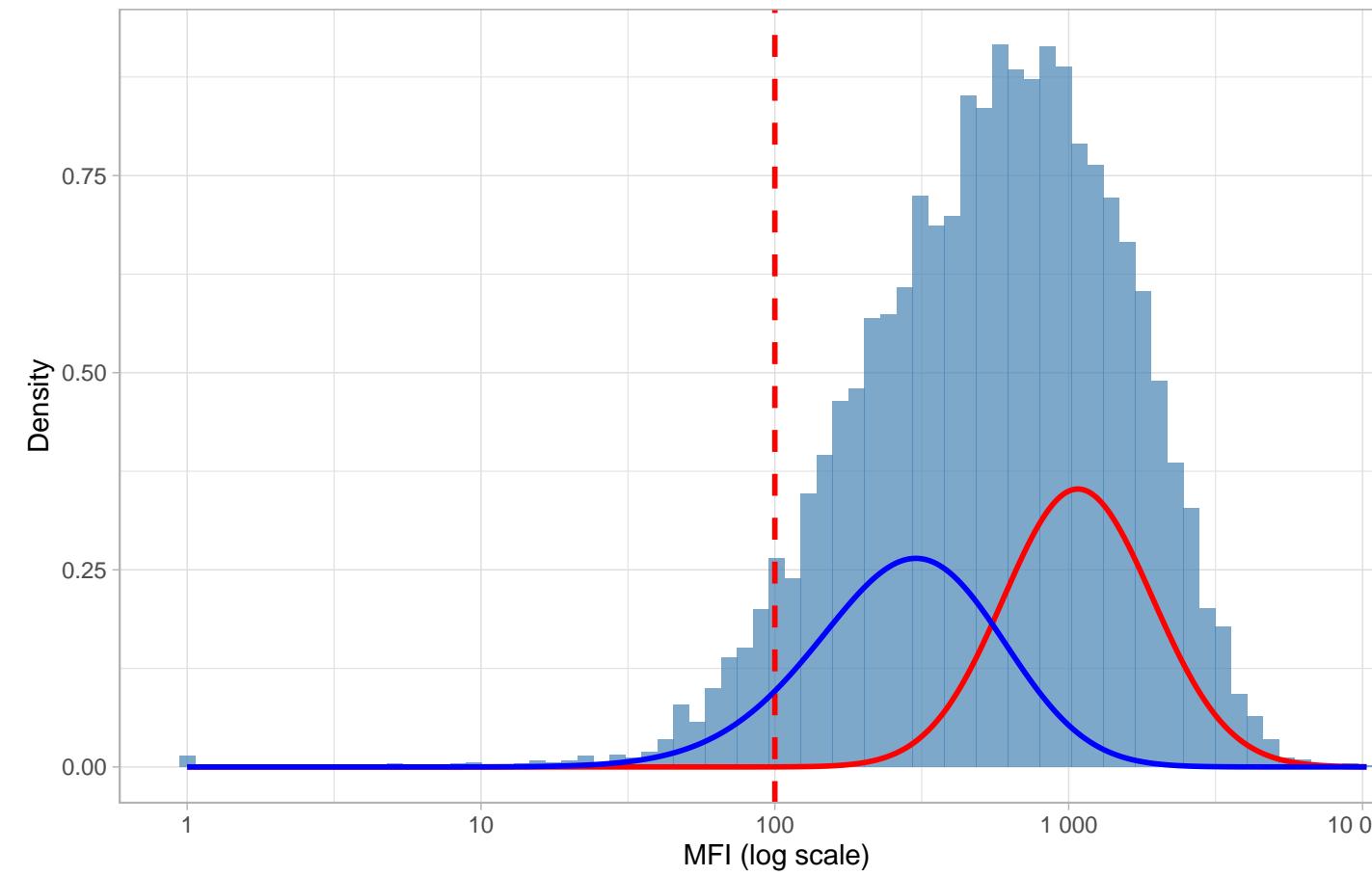


Comprehensive Diagnostics: hhv7_u1

N=9424 | >0.95=1569 | <0.05=1777 | Ambig=607

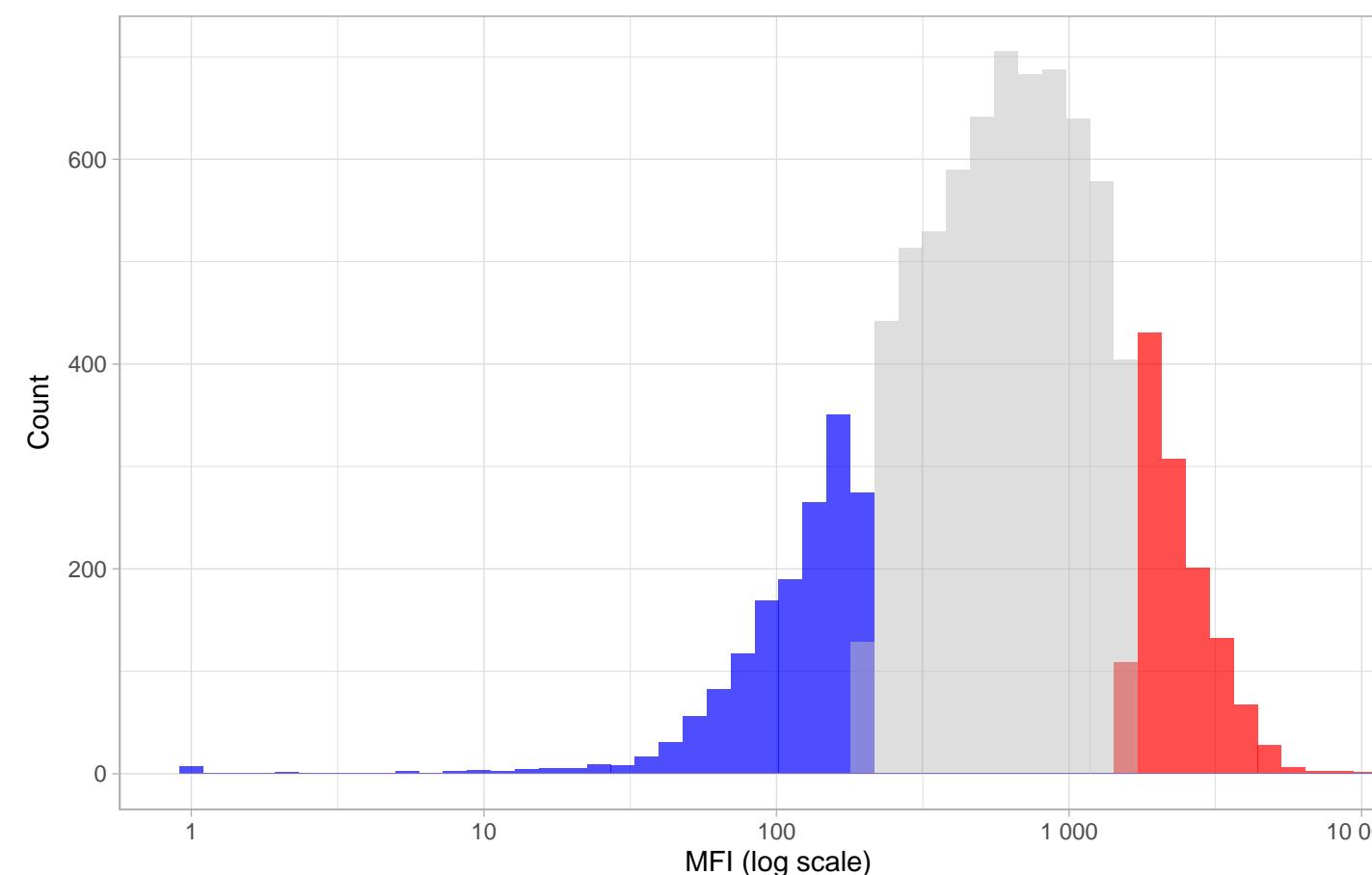
MFI Distribution: hhv7_u14

BL Hard Threshold = 100



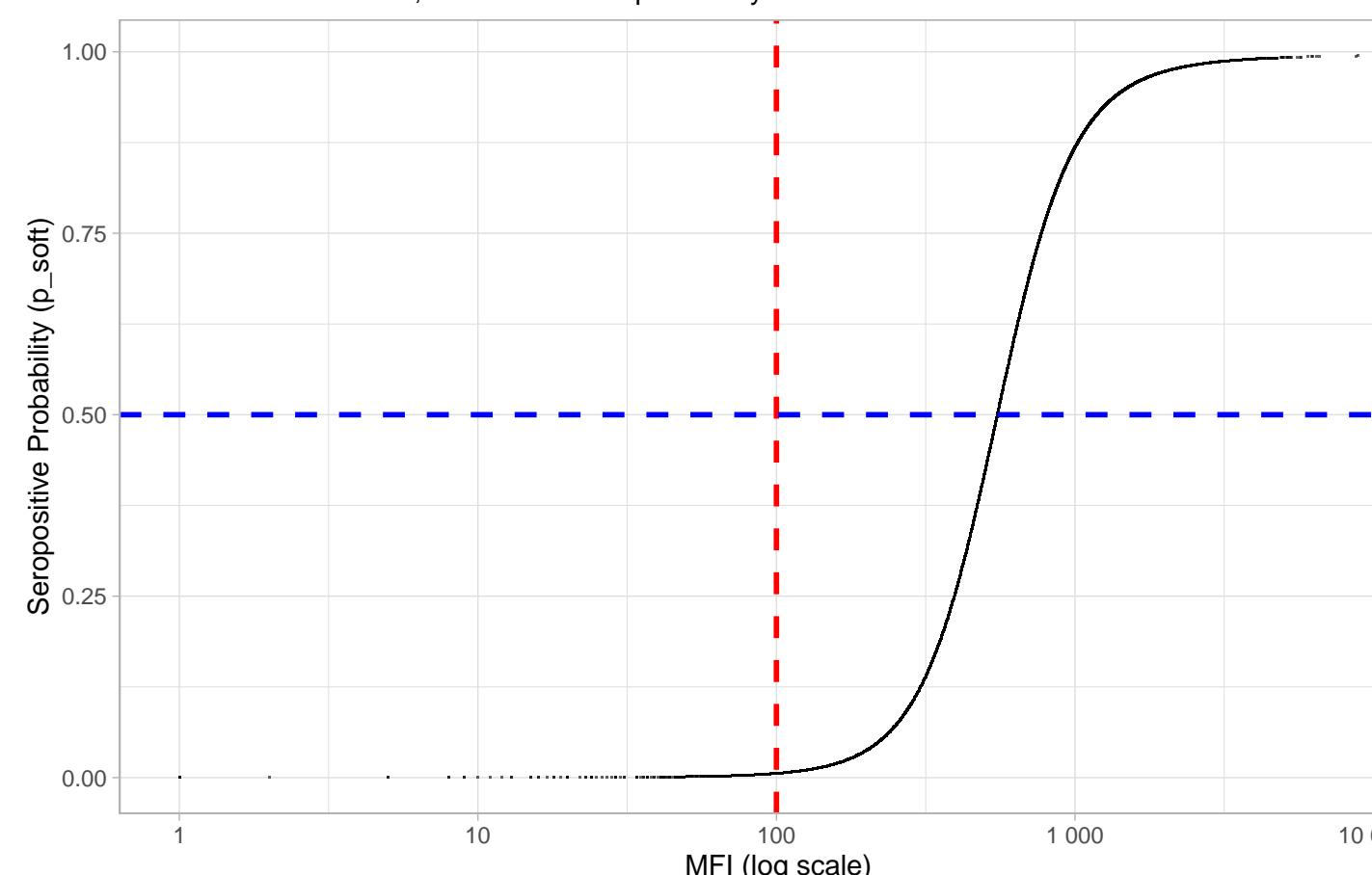
Distribution by Confidence: hhv7_u1

Prob threshold = 0.96



IgG Level vs. Seropositive Probability: hhv7_u

Red line = BL threshold, Blue line = 50% probability

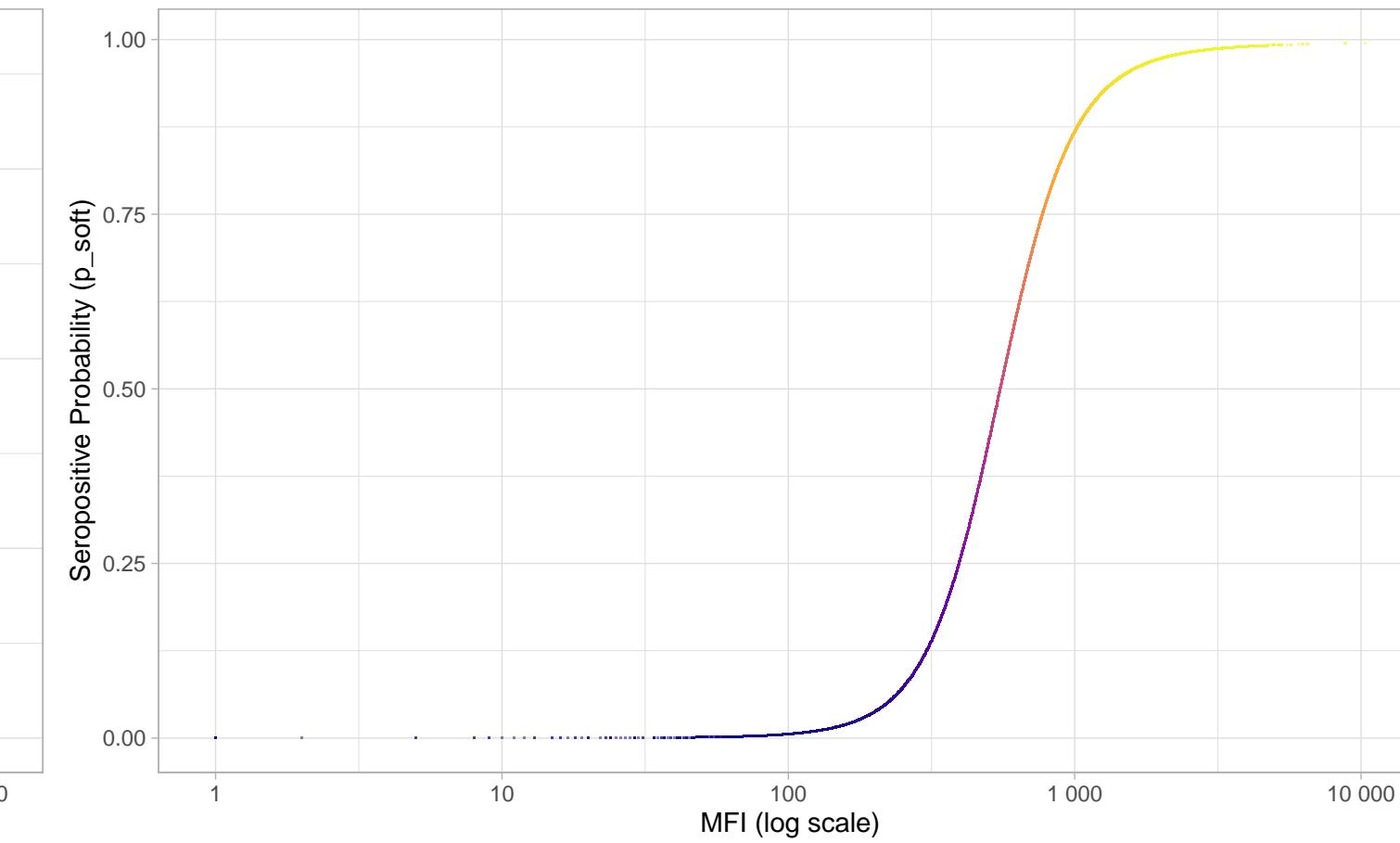


Hard Calls vs. Soft Probability: hhv7_u1

Comparing BL and Mixture-Model hard calls against p_s

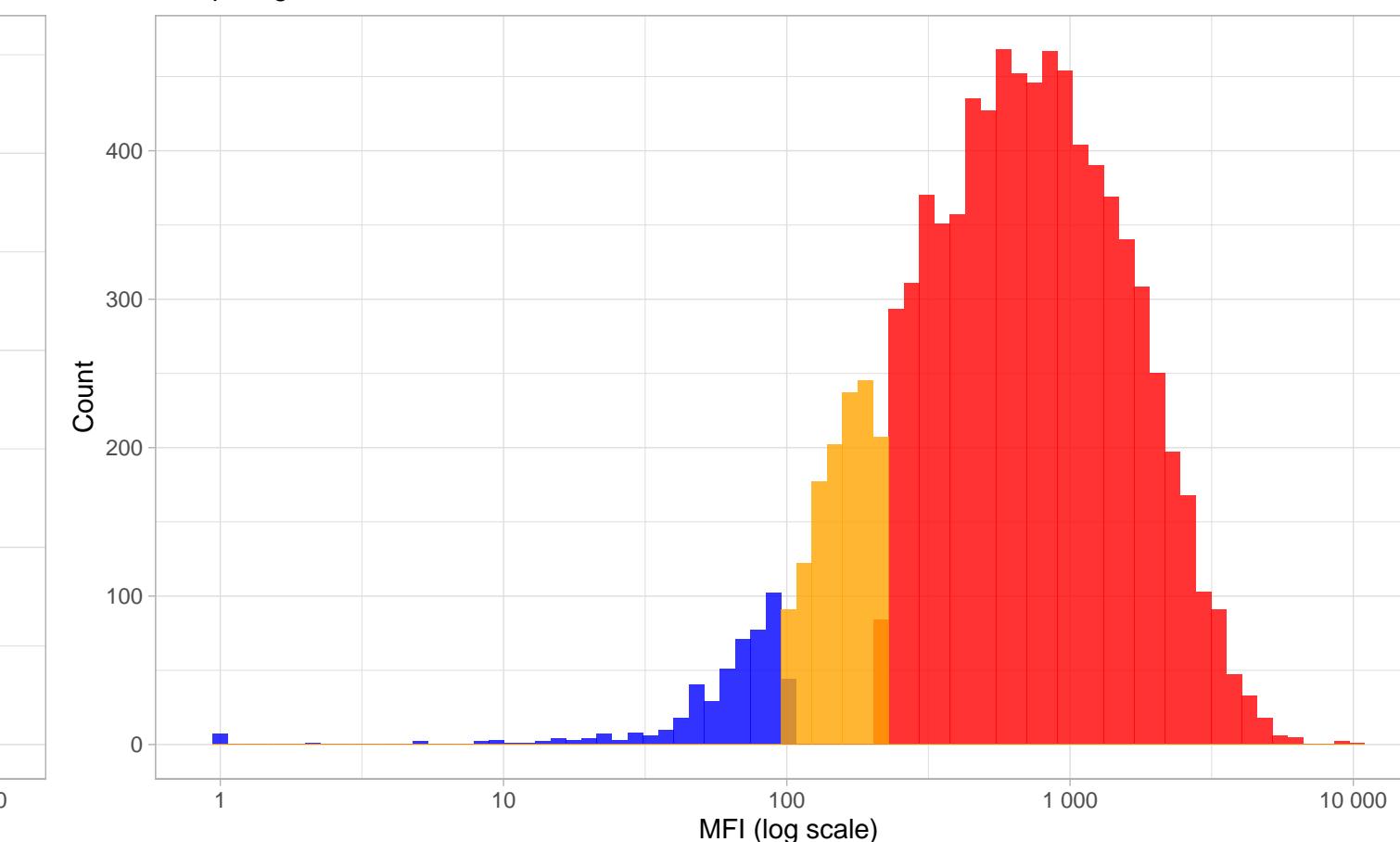


IgG vs Seropositive Probability: hhv7_1



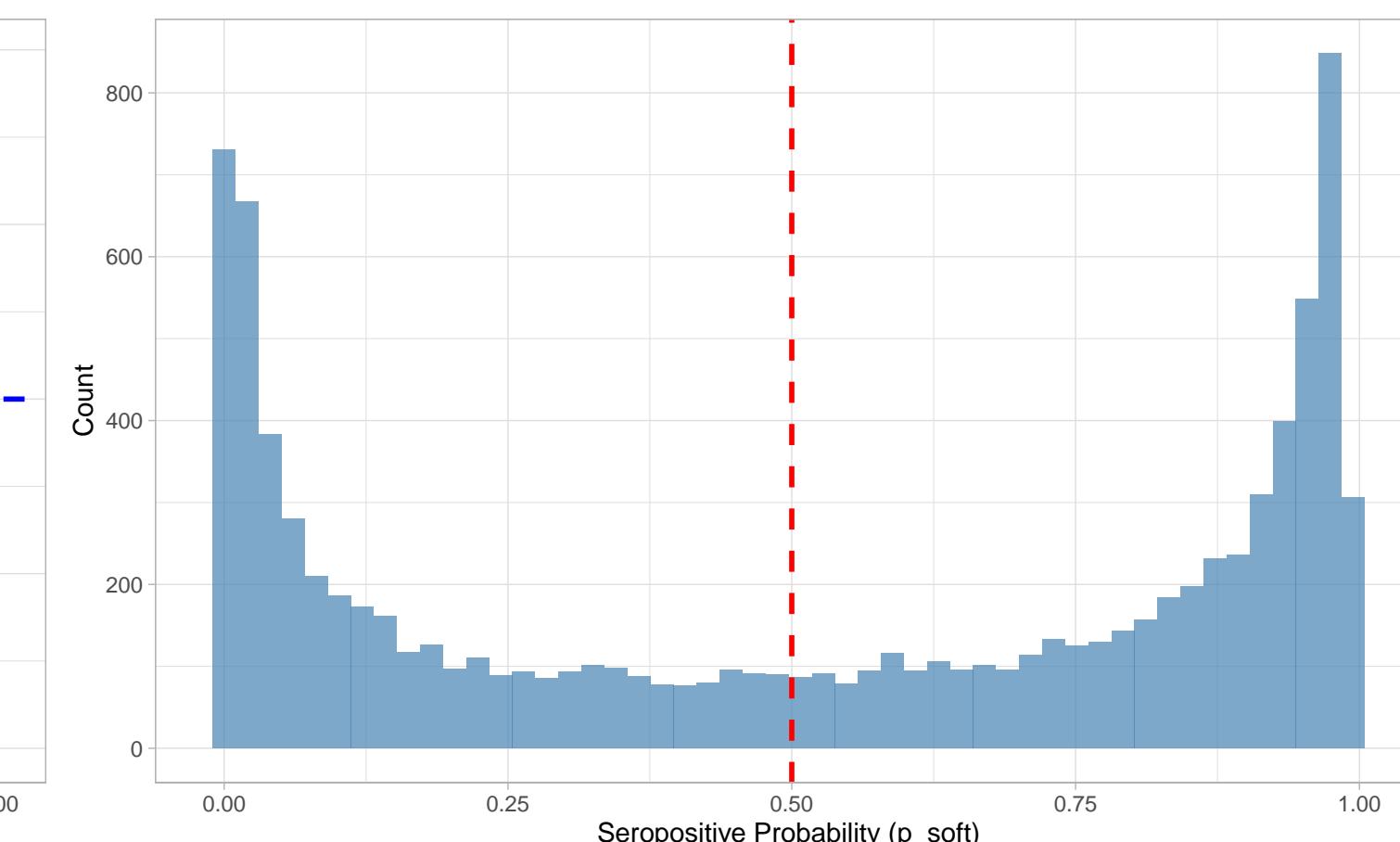
Phenotype Distribution by Classification: hhv7_u

Comparing BL vs. Mixture-Model Hard Cuts



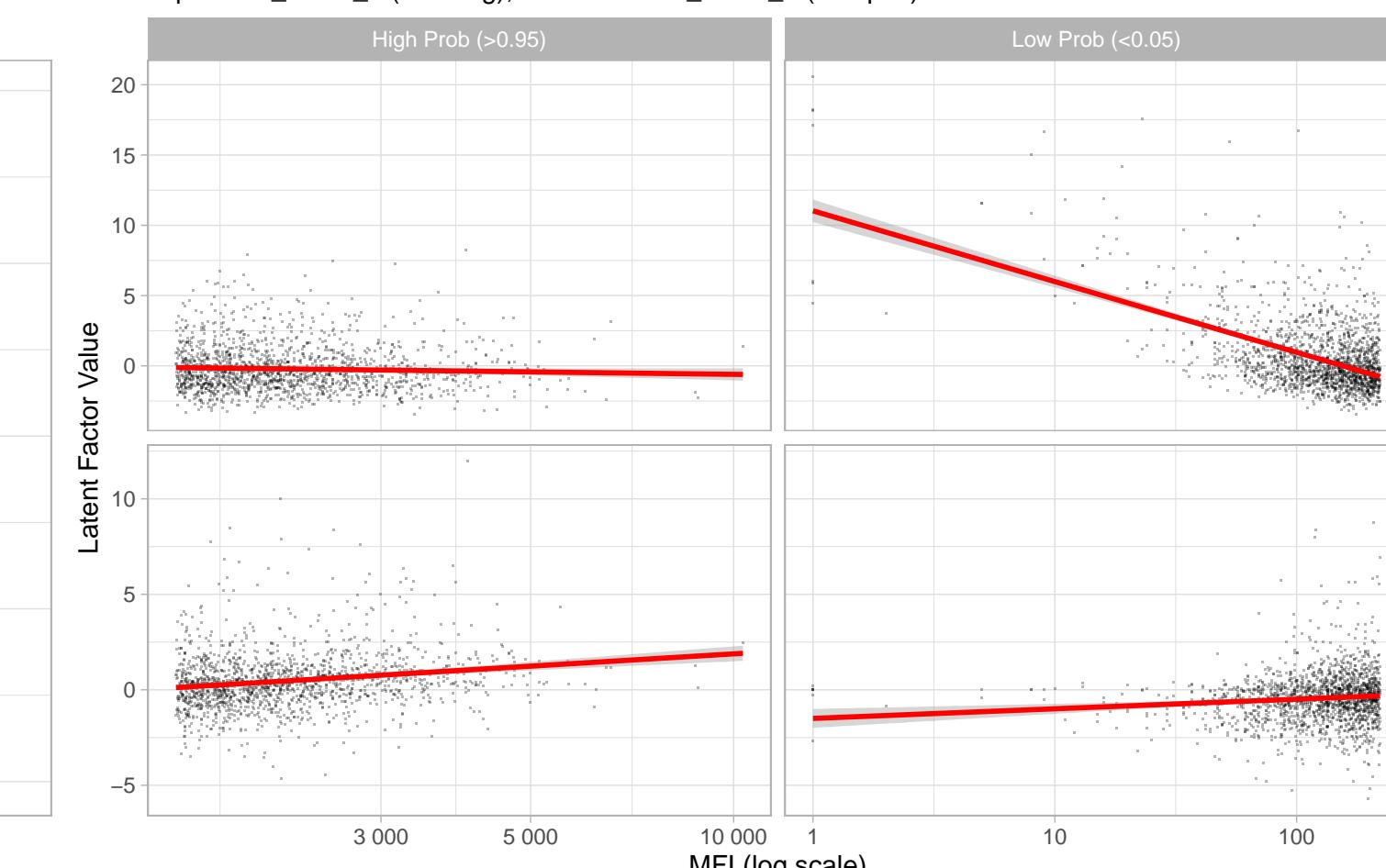
Distribution of Seropositive Probabilities: hhv7_u

Red line = 50% thres



Latent Factor Components vs IgG Level: hhv7_u

Top: latent_factor_1 (seroneg), Bottom: latent_factor_2 (seropos)

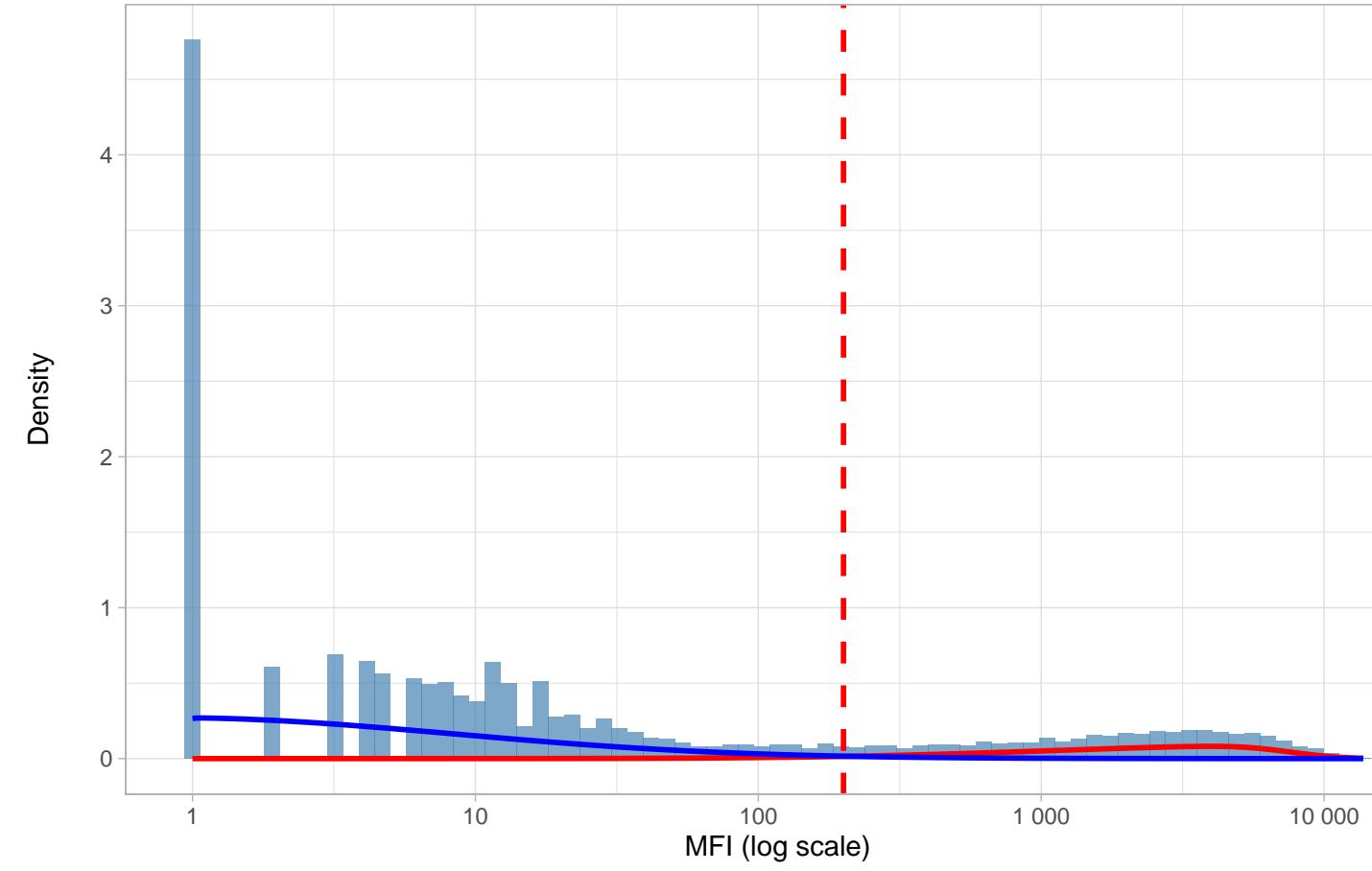


Comprehensive Diagnostics: ct_pgp3

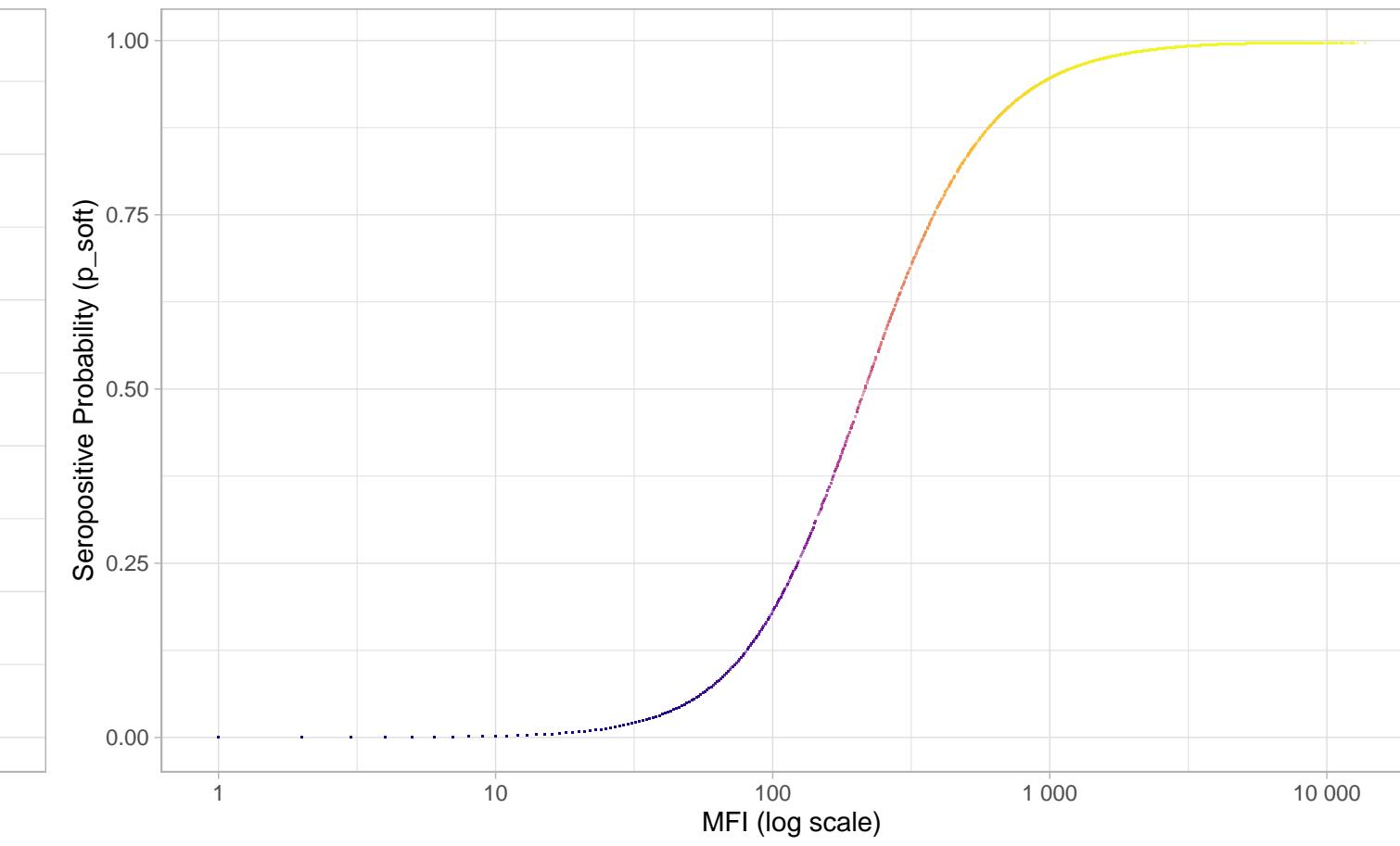
N=9424 | >0.95=1392 | <0.05=6906 | Ambig=1126

MFI Distribution: ct_pgp3

BL Hard Threshold = 200

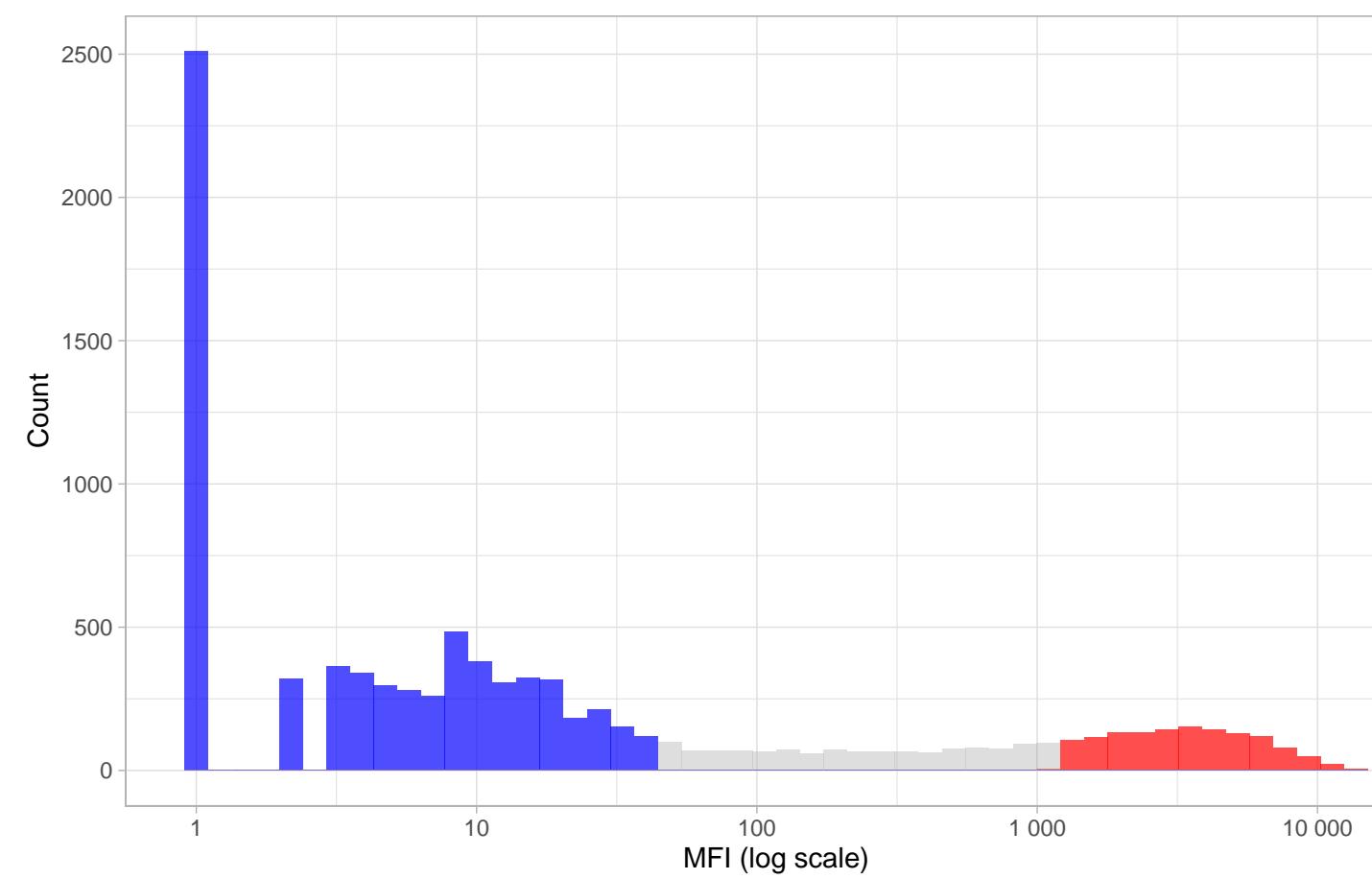


IgG vs Seropositive Probability: ct_pgp3



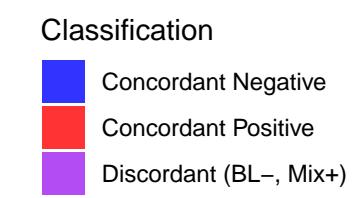
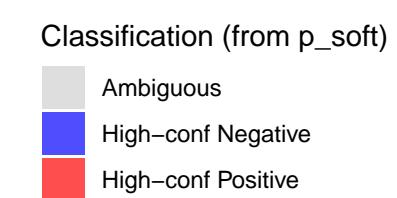
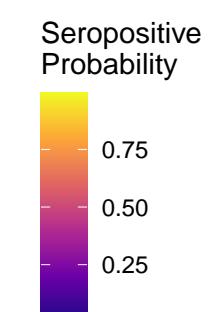
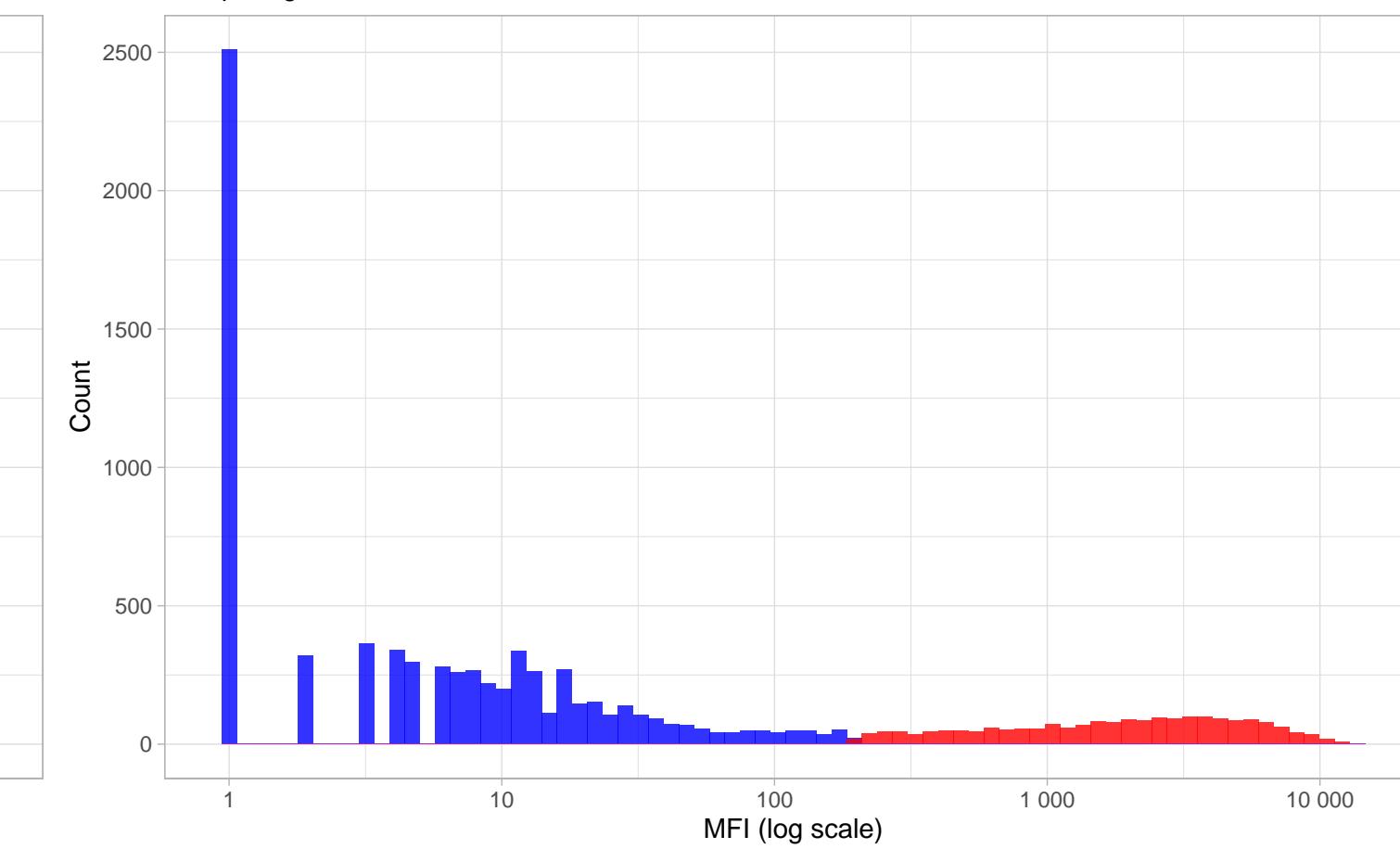
Distribution by Confidence: ct_pgp3

Prob threshold = 0.96



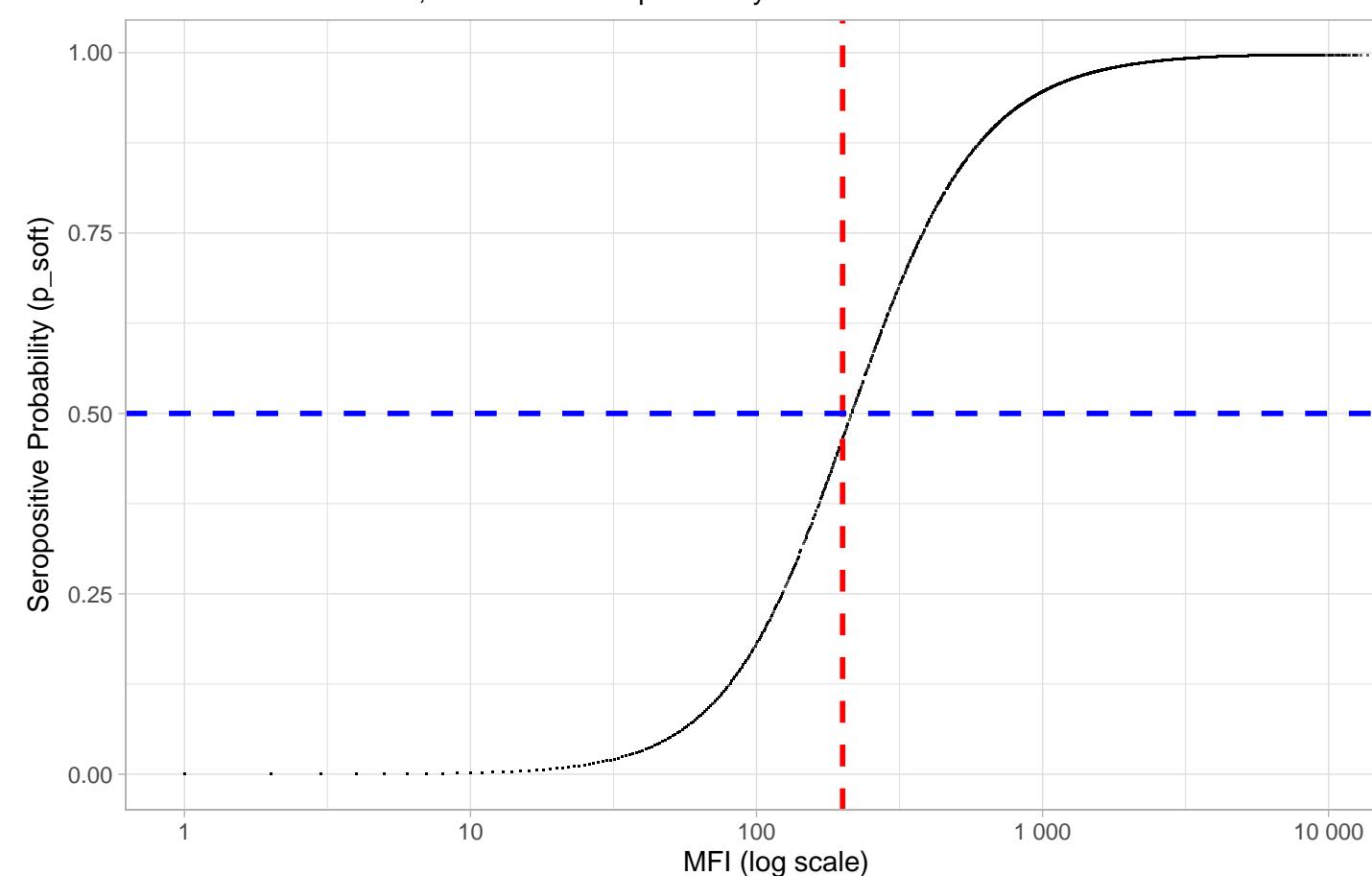
Phenotype Distribution by Classification: ct_pgp3

Comparing BL vs. Mixture-Model Hard Calls



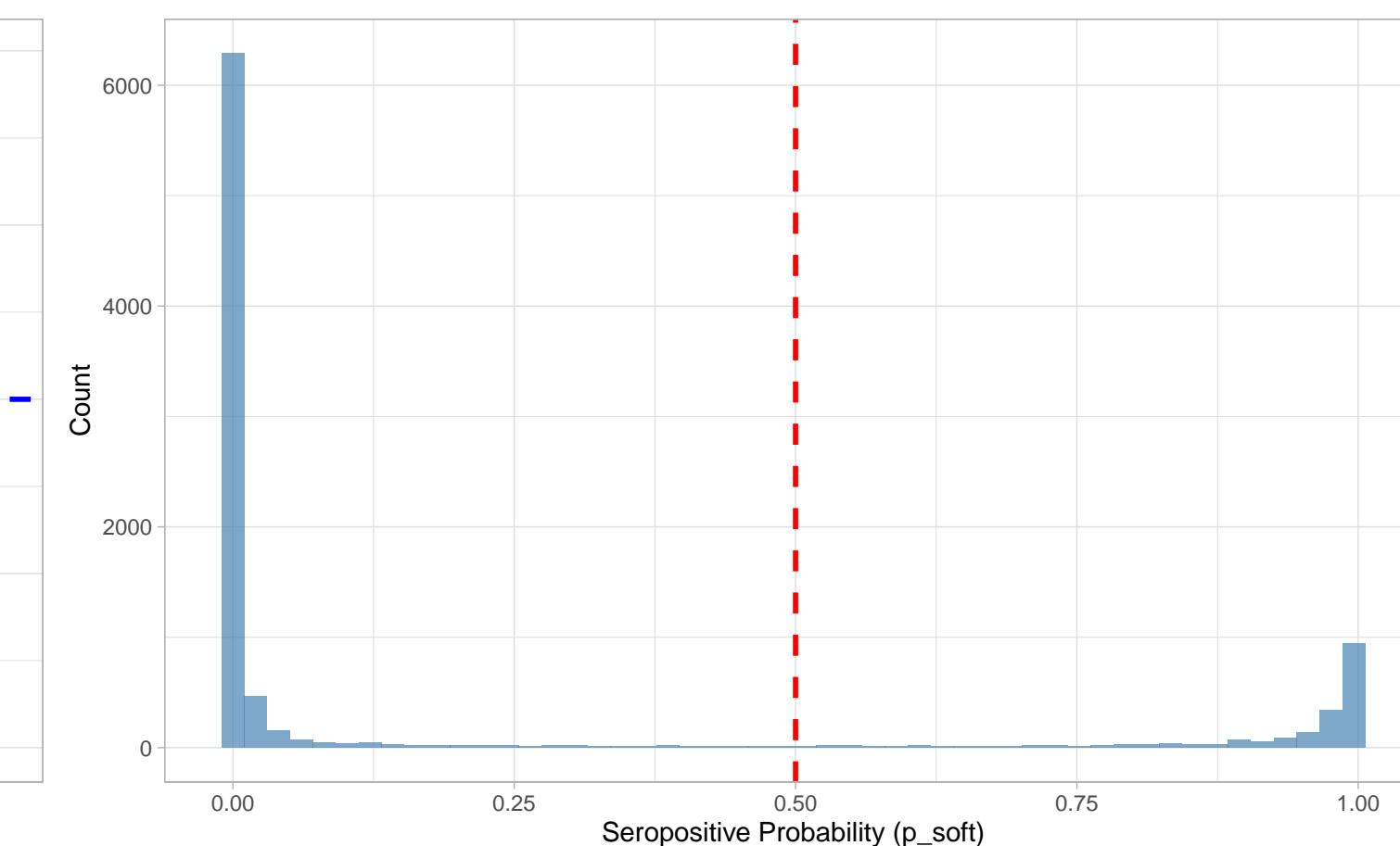
IgG Level vs. Seropositive Probability: ct_pgp3

Red line = BL threshold, Blue line = 50% probability



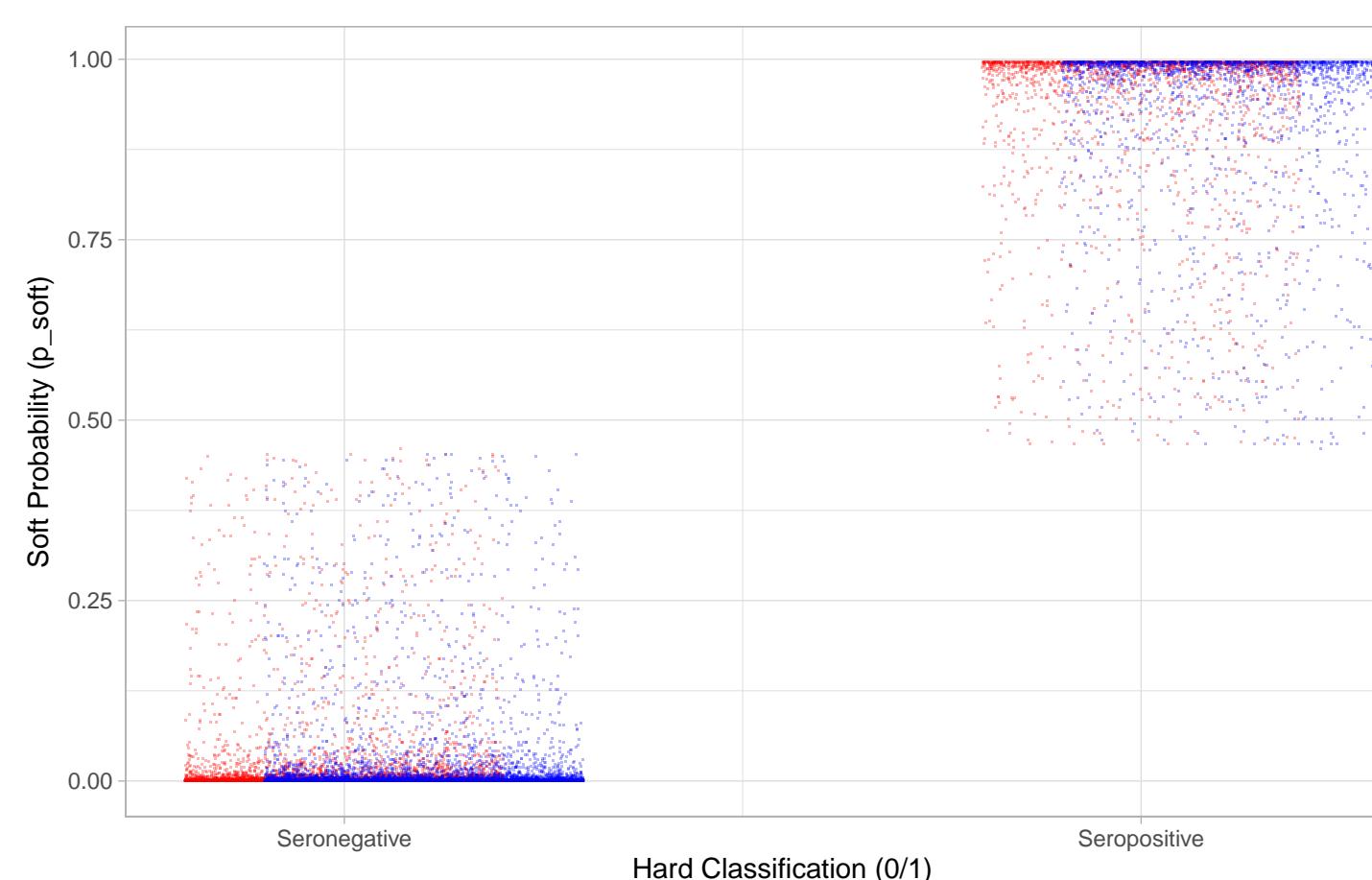
Distribution of Seropositive Probabilities: ct_pgp3

Red line = 50% threshold



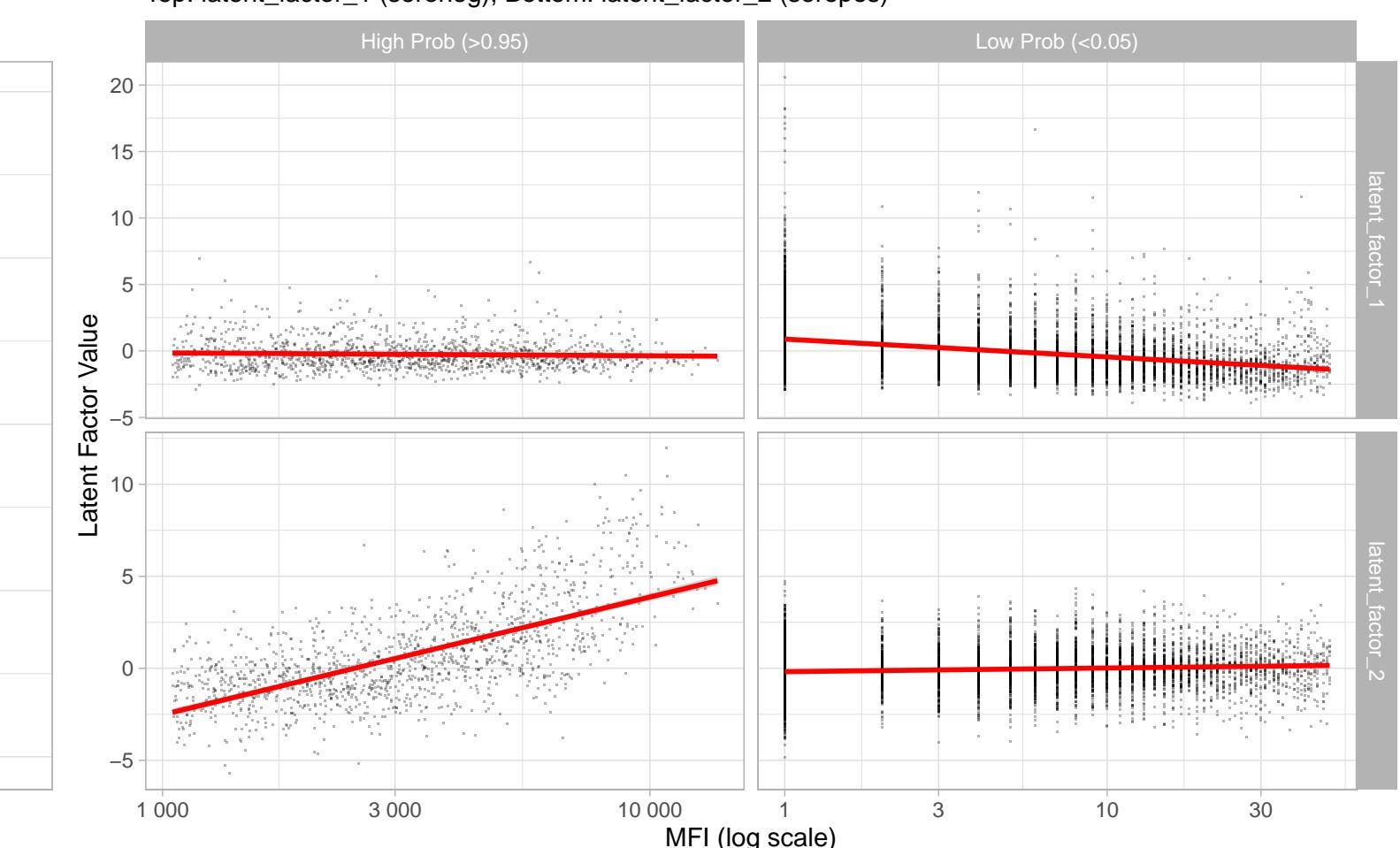
Hard Calls vs. Soft Probability: ct_pgp3

Comparing BL and Mixture-Model hard calls against p_soft



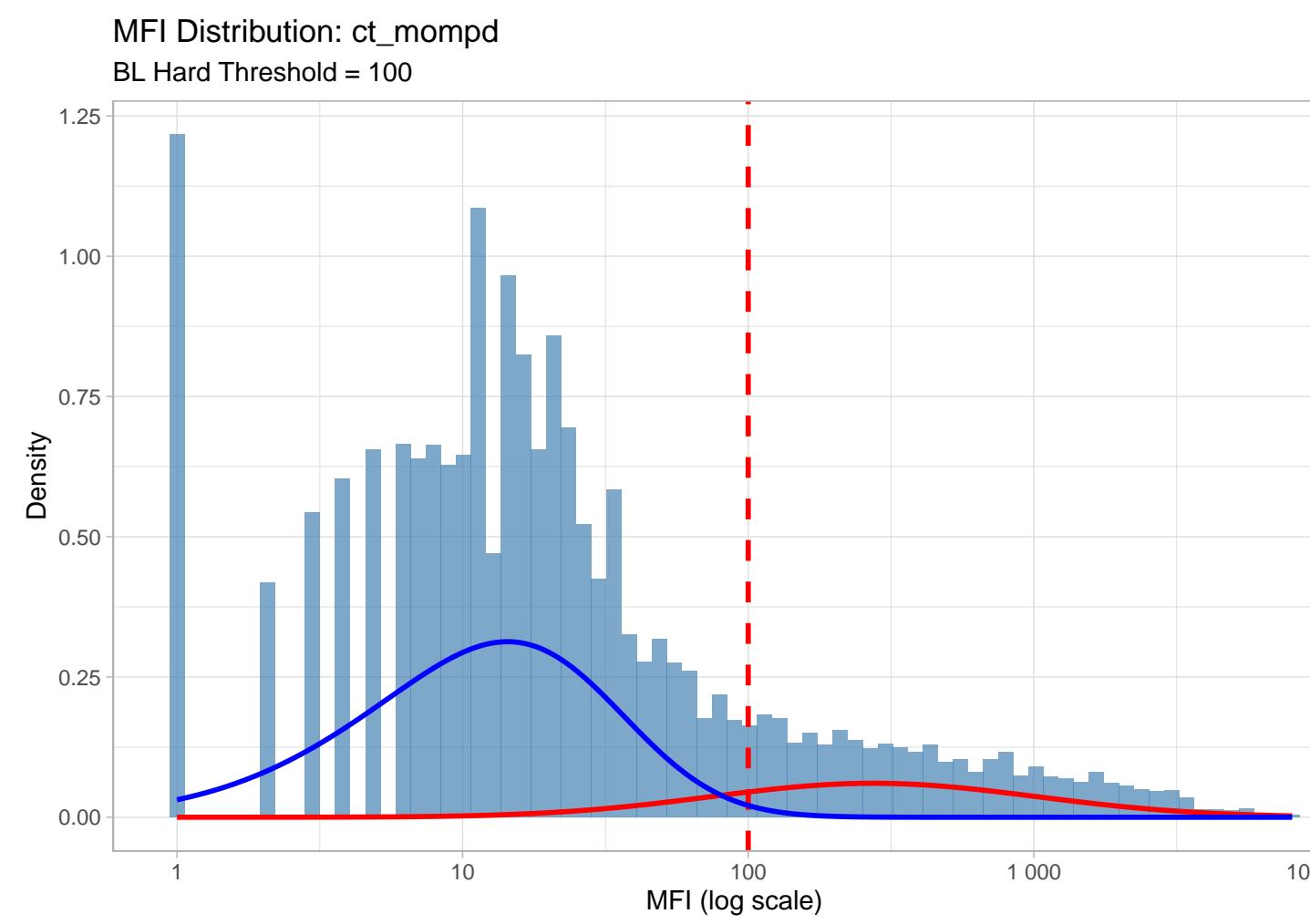
Latent Factor Components vs IgG Level: ct_pgp3

Top: latent_factor_1 (seroneg), Bottom: latent_factor_2 (seropos)

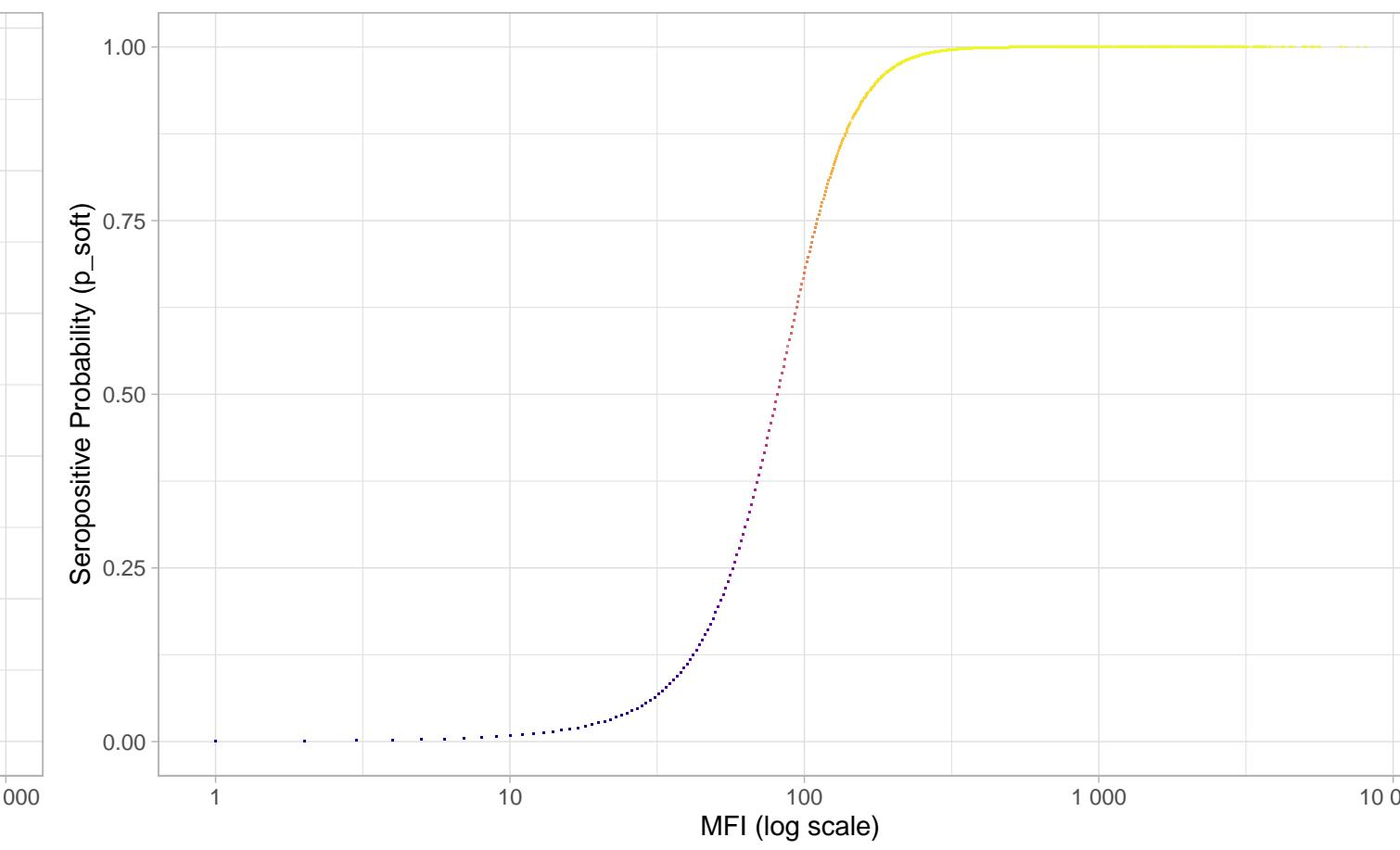


Comprehensive Diagnostics: ct_mompd

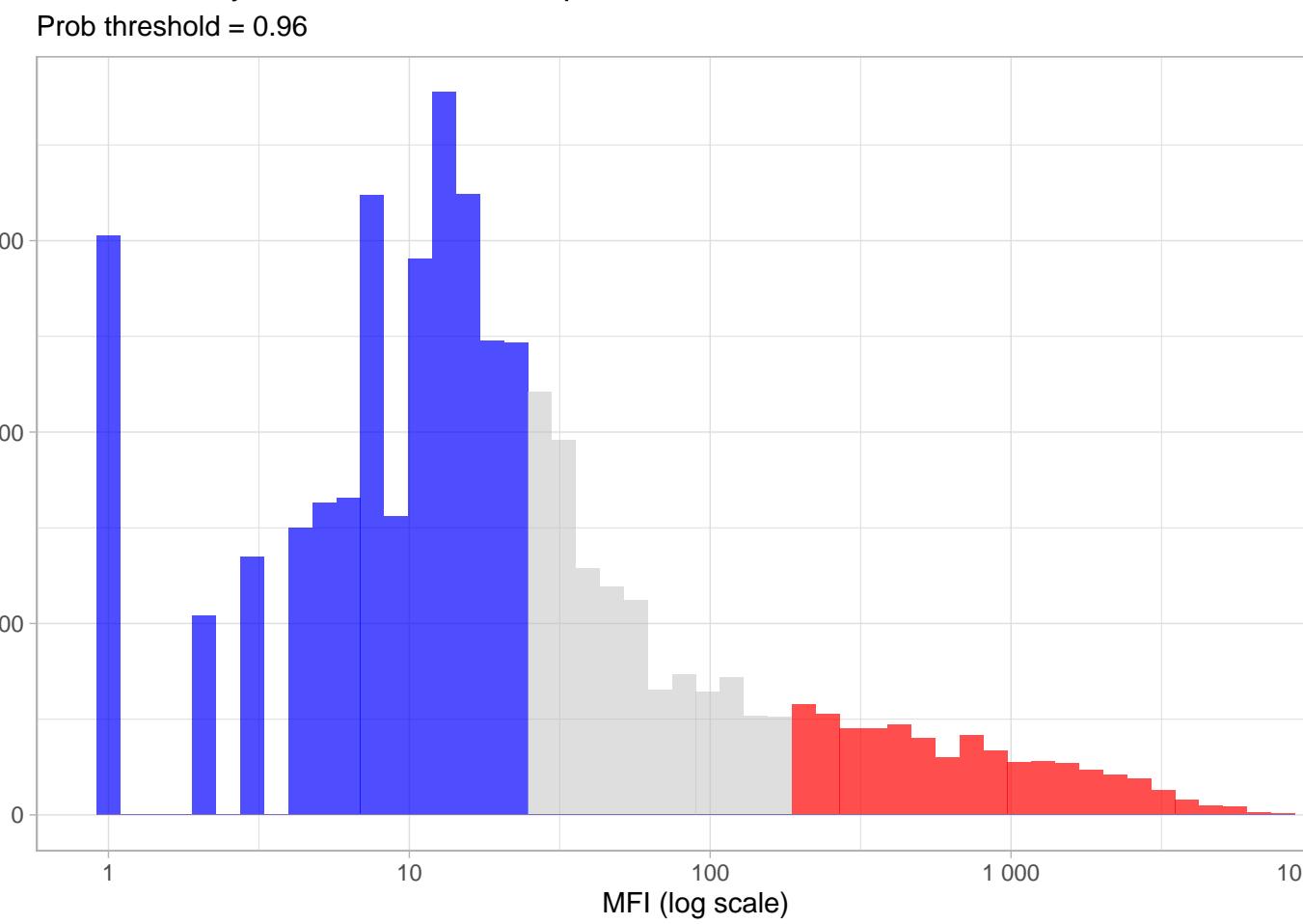
N=9424 | >0.95=1167 | <0.05=6253 | Ambig=2004



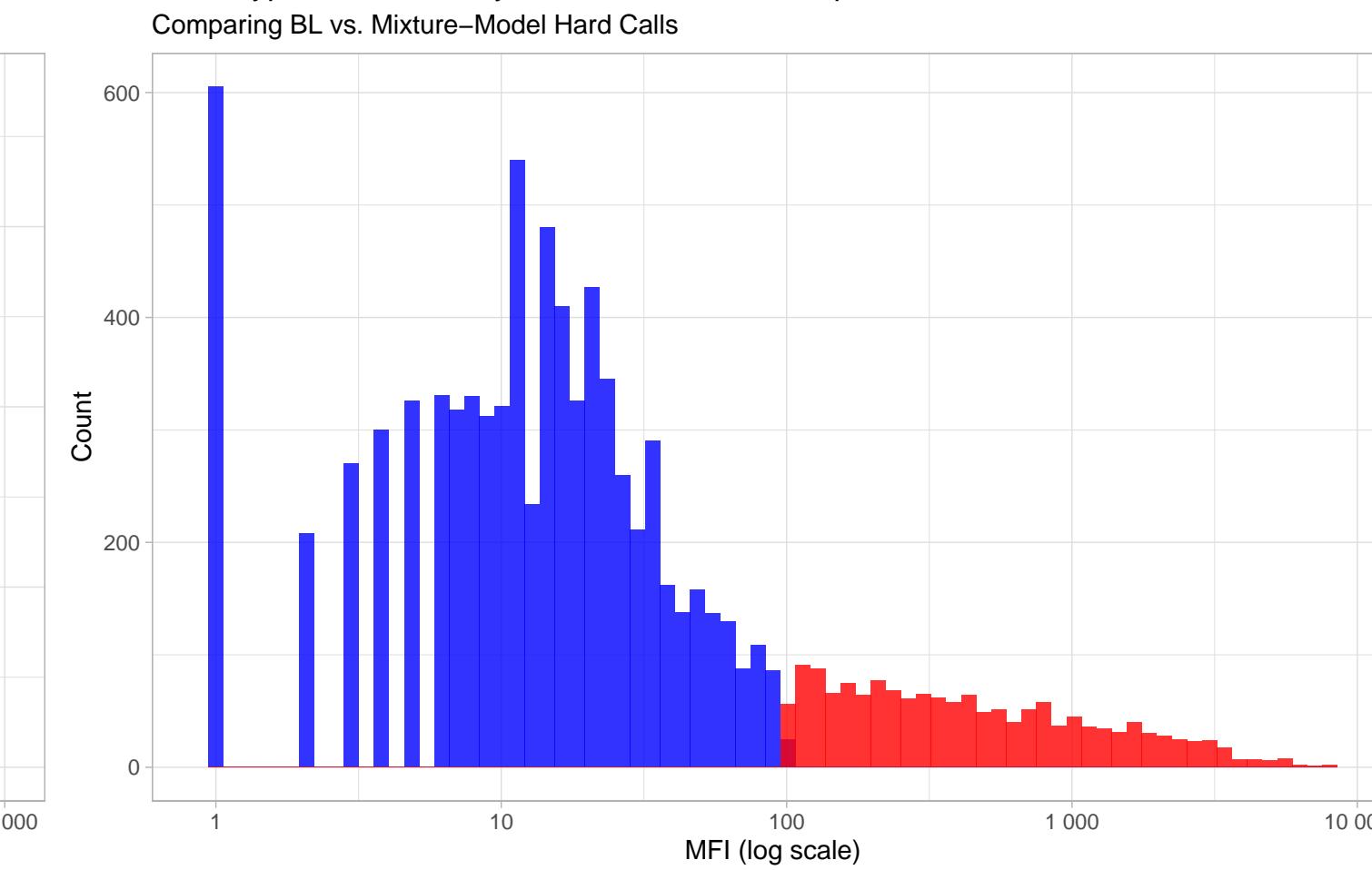
IgG vs Seropositive Probability: ct_mompd



Distribution by Confidence: ct_mompd

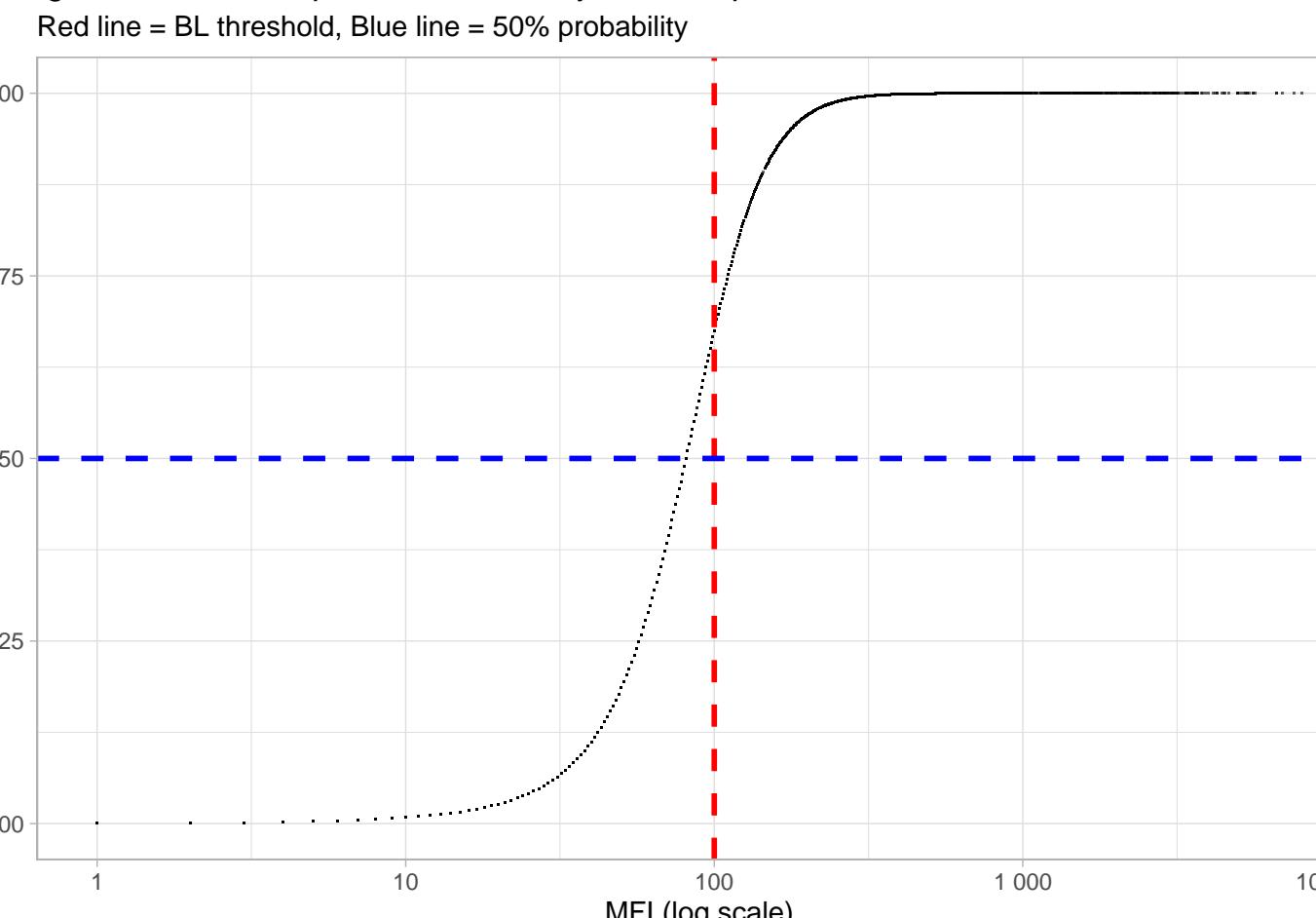


Phenotype Distribution by Classification: ct_mompd

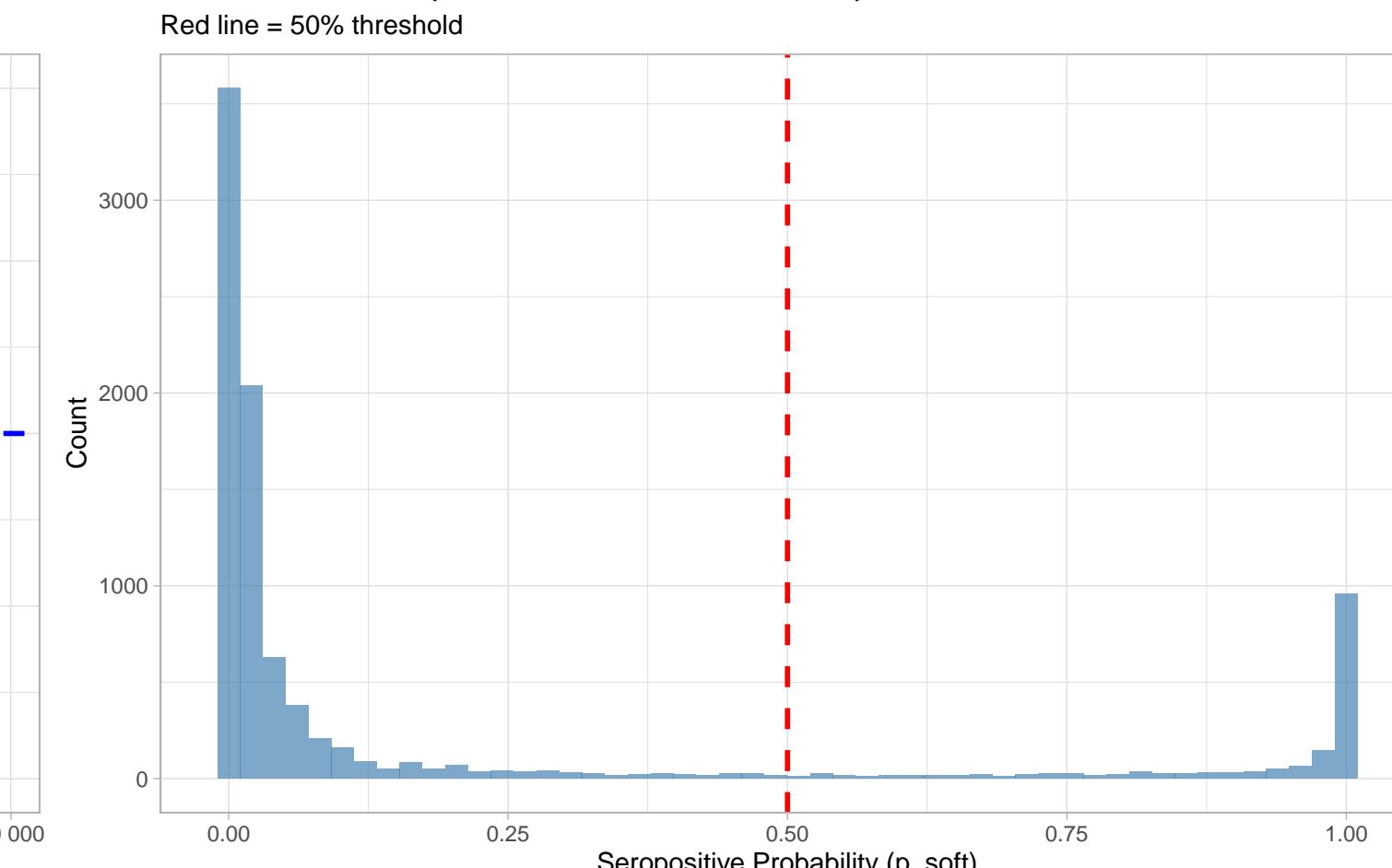


- Seropositive Probability**
- Ambiguous
- High-conf Negative
- High-conf Positive
- Classification**
- Concordant Negative
- Concordant Positive
- Hard Call Type**
- BL Hard Call
- Mix Hard Call

IgG Level vs. Seropositive Probability: ct_mompd



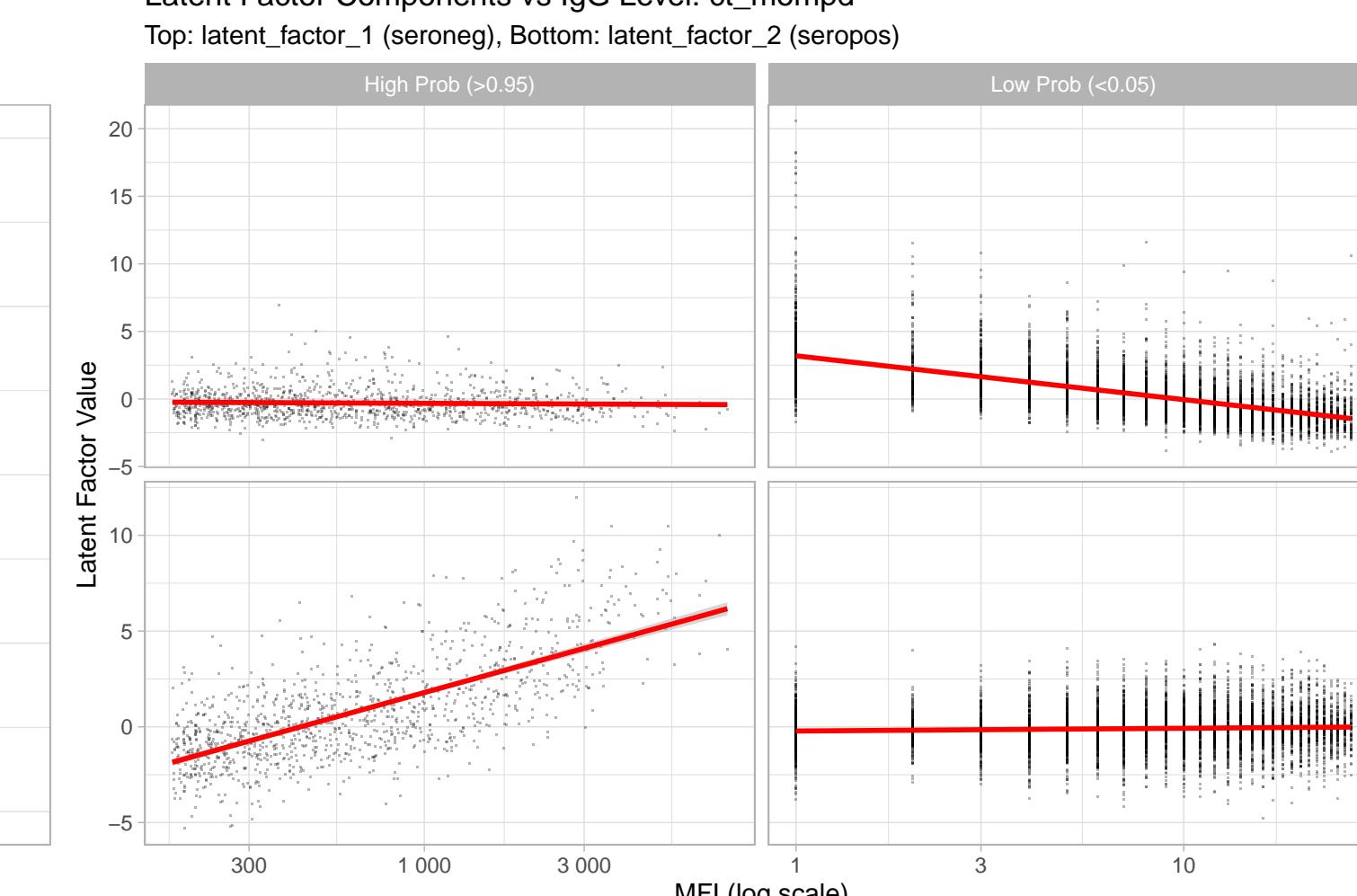
Distribution of Seropositive Probabilities: ct_mompd



Hard Calls vs. Soft Probability: ct_mompd



Latent Factor Components vs IgG Level: ct_mompd

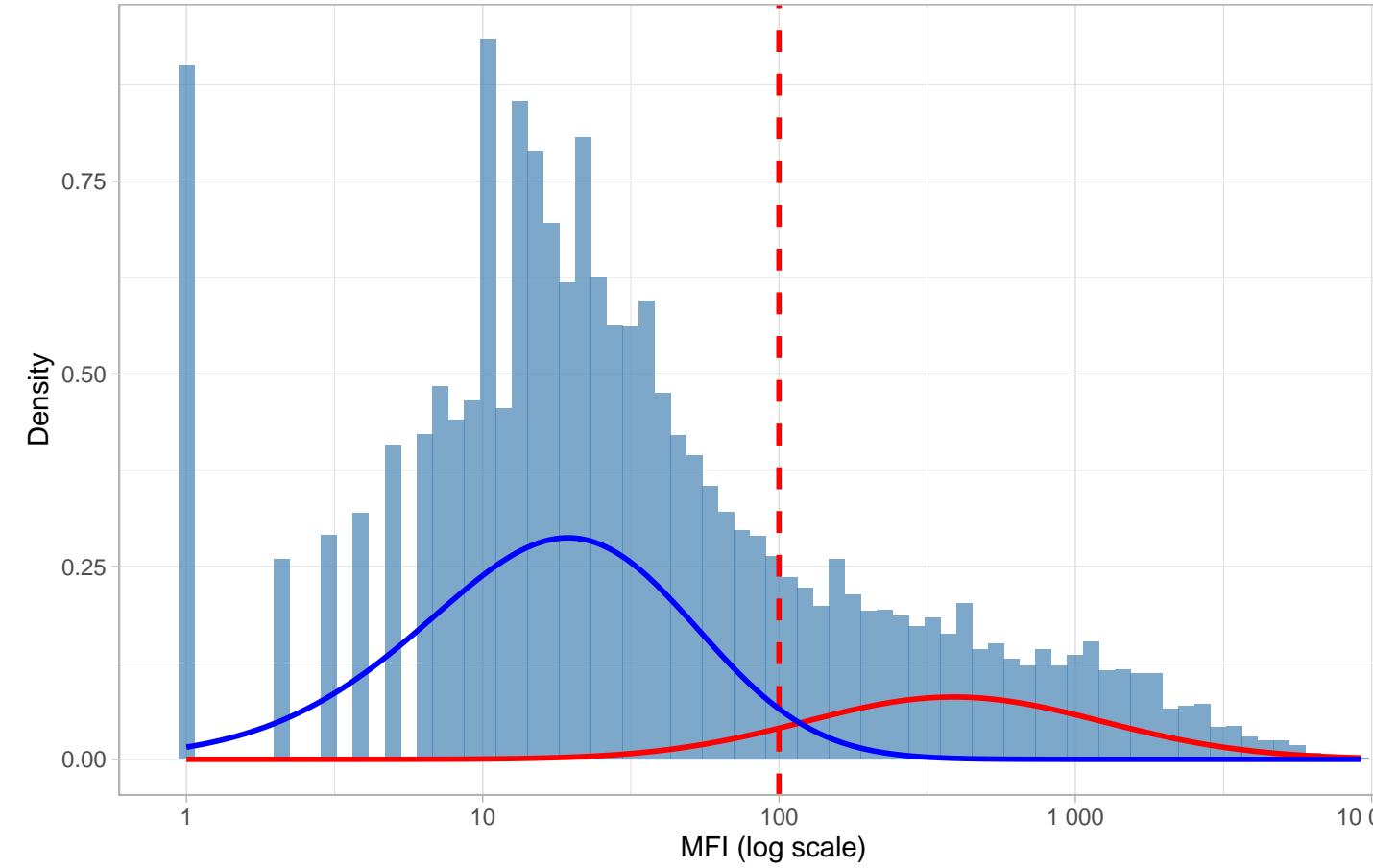


Comprehensive Diagnostics: ct_tarpf2

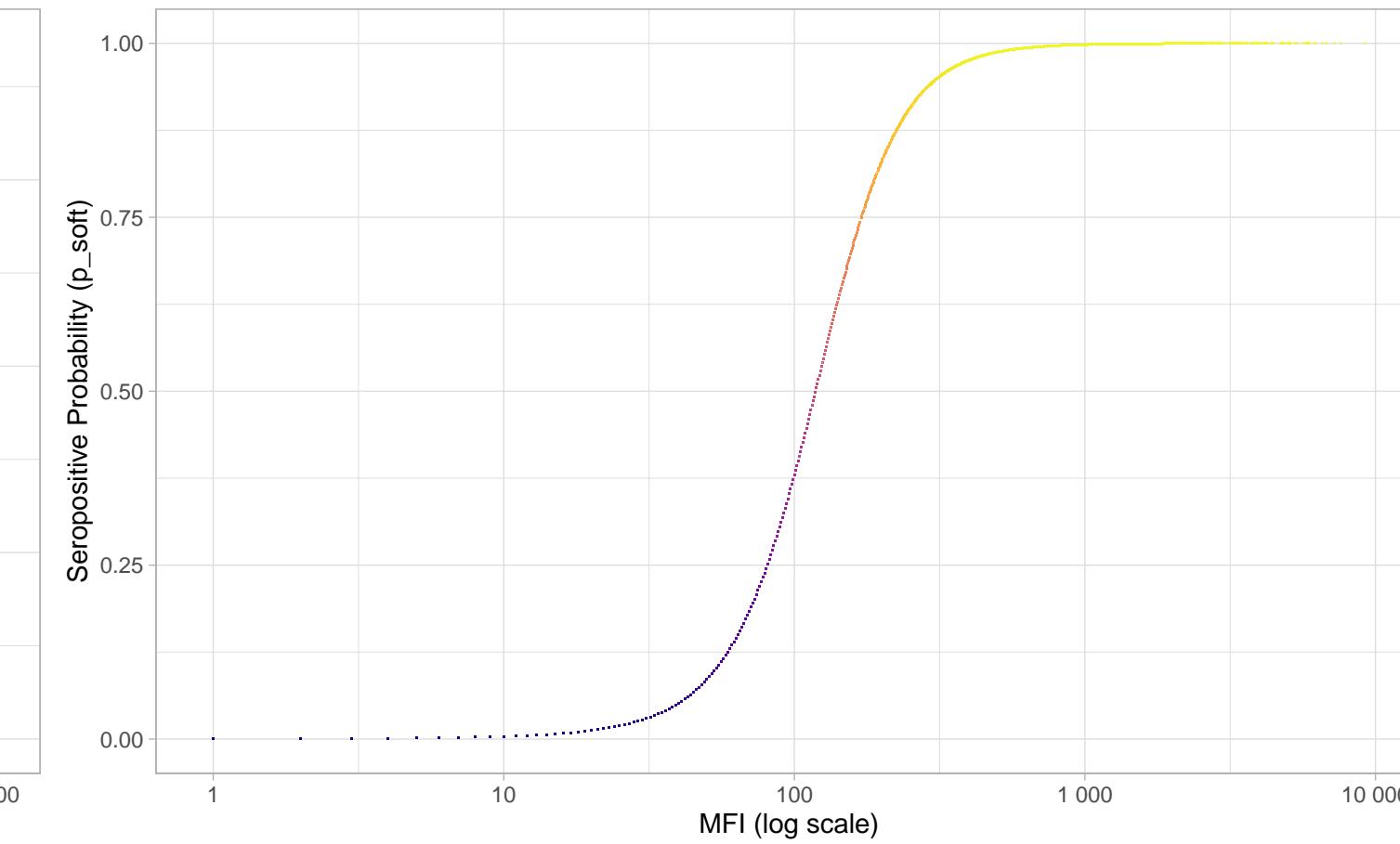
N=9424 | >0.95=1256 | <0.05=5857 | Ambig=2311

MFI Distribution: ct_tarpf2

BL Hard Threshold = 100

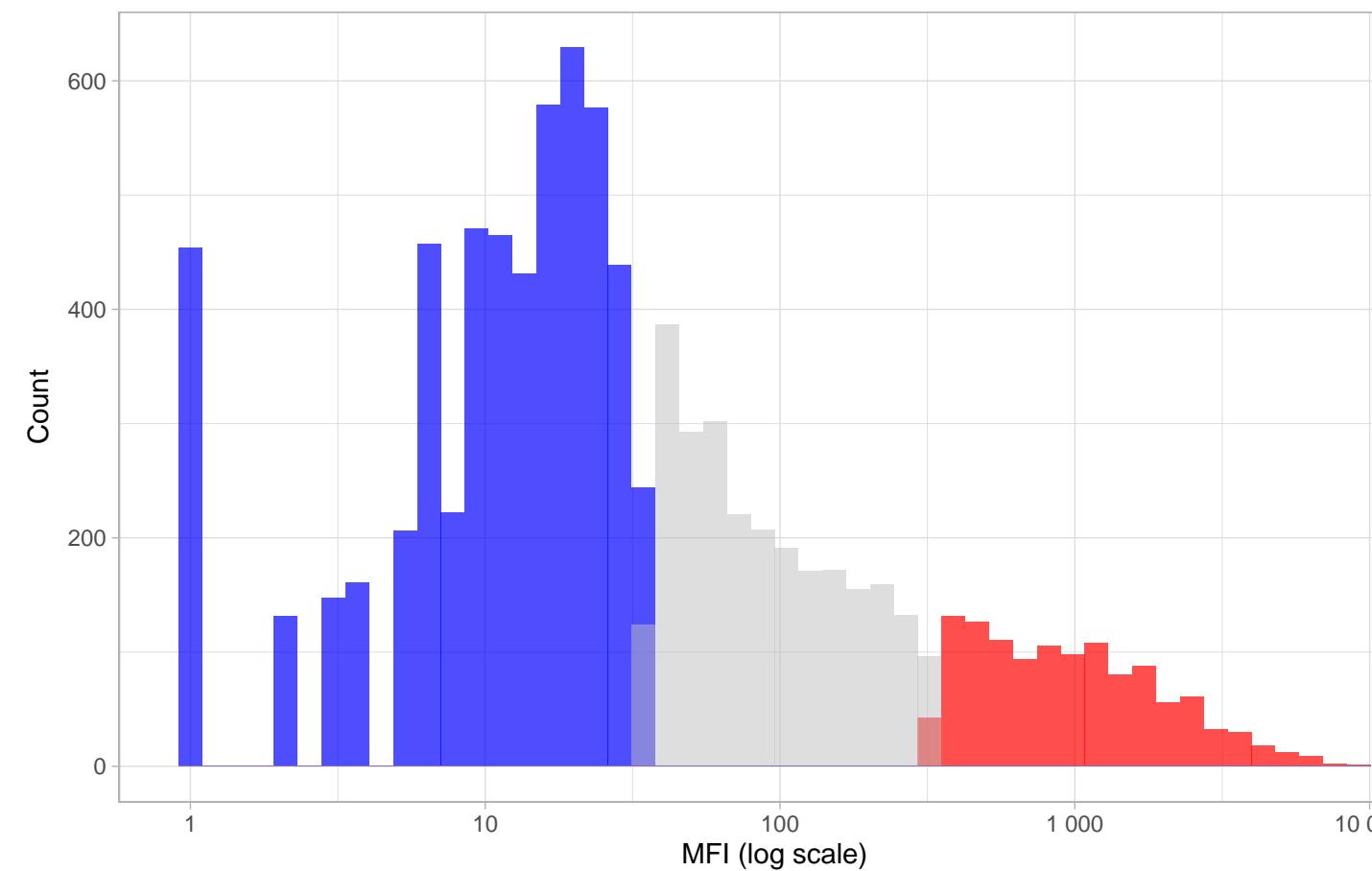


IgG vs Seropositive Probability: ct_tarpf2



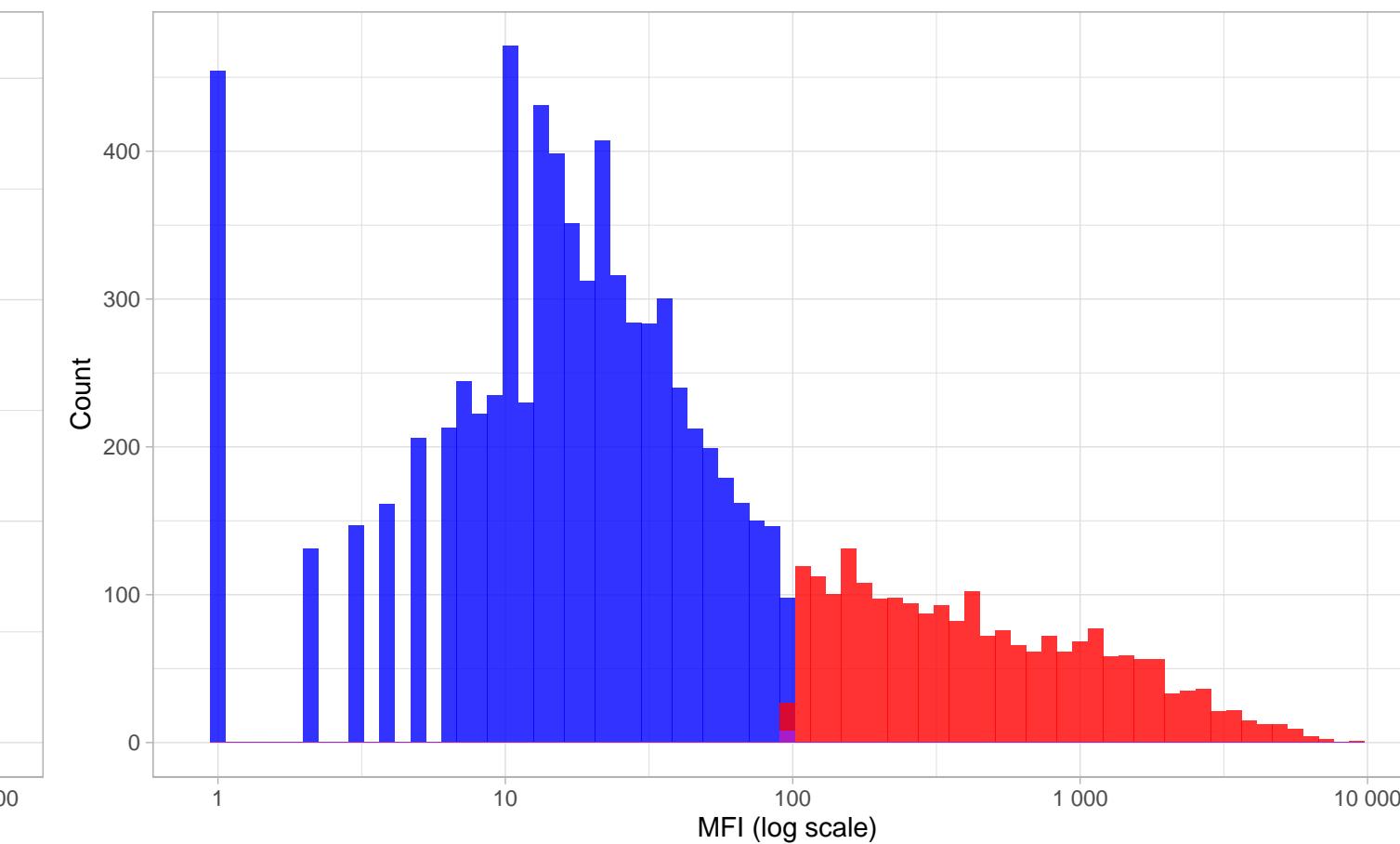
Distribution by Confidence: ct_tarpf2

Prob threshold = 0.96



Phenotype Distribution by Classification: ct_tarpf2

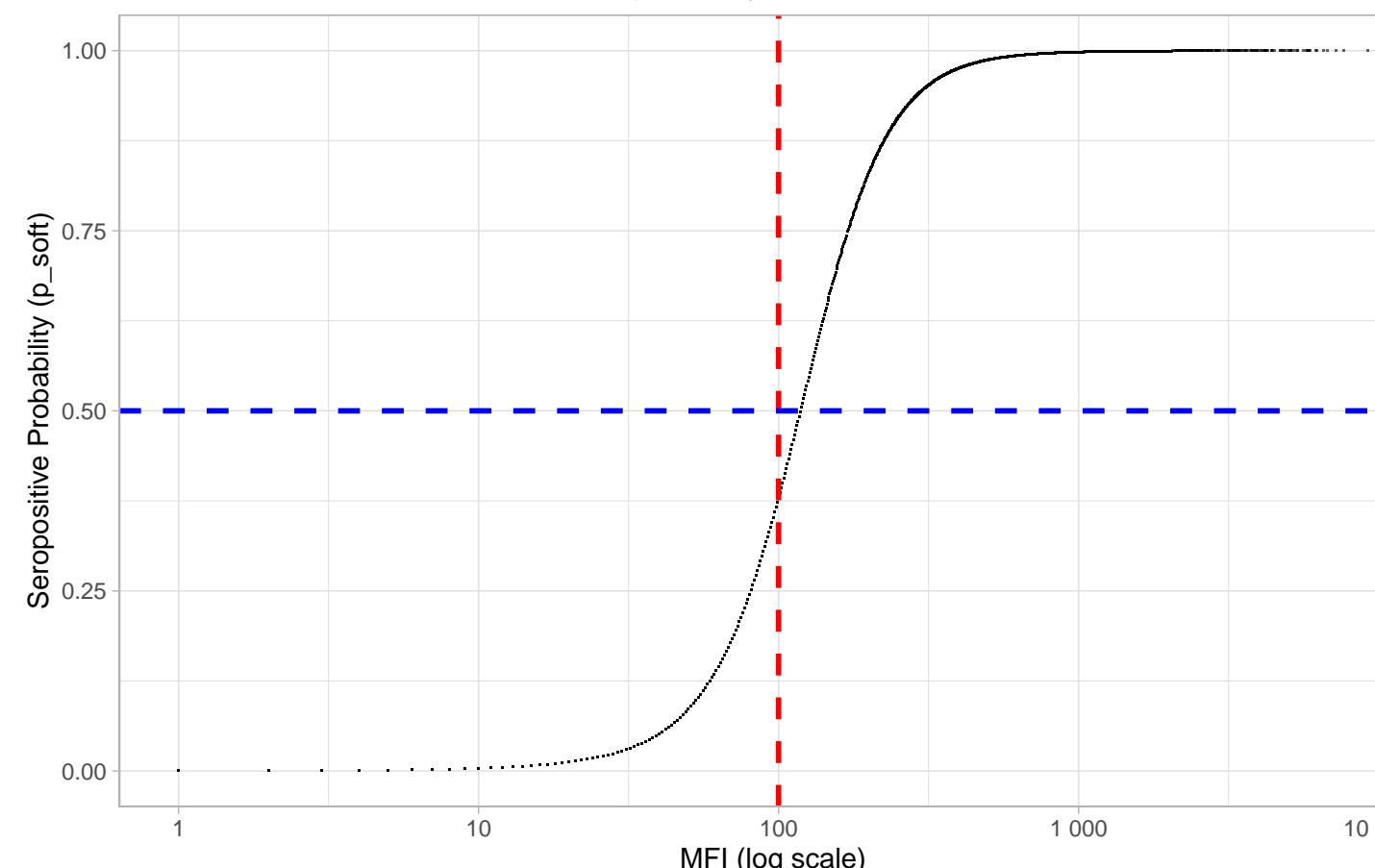
Comparing BL vs. Mixture-Model Hard Calls



- Seropositive Probability
- Classification (from p_soft)
 - Ambiguous
 - High-conf Negative
 - High-conf Positive
- Classification
 - Concordant Negative
 - Concordant Positive
 - Discordant (BL-, Mix+)
- Hard Call Type
 - BL Hard Call
 - Mix Hard Call

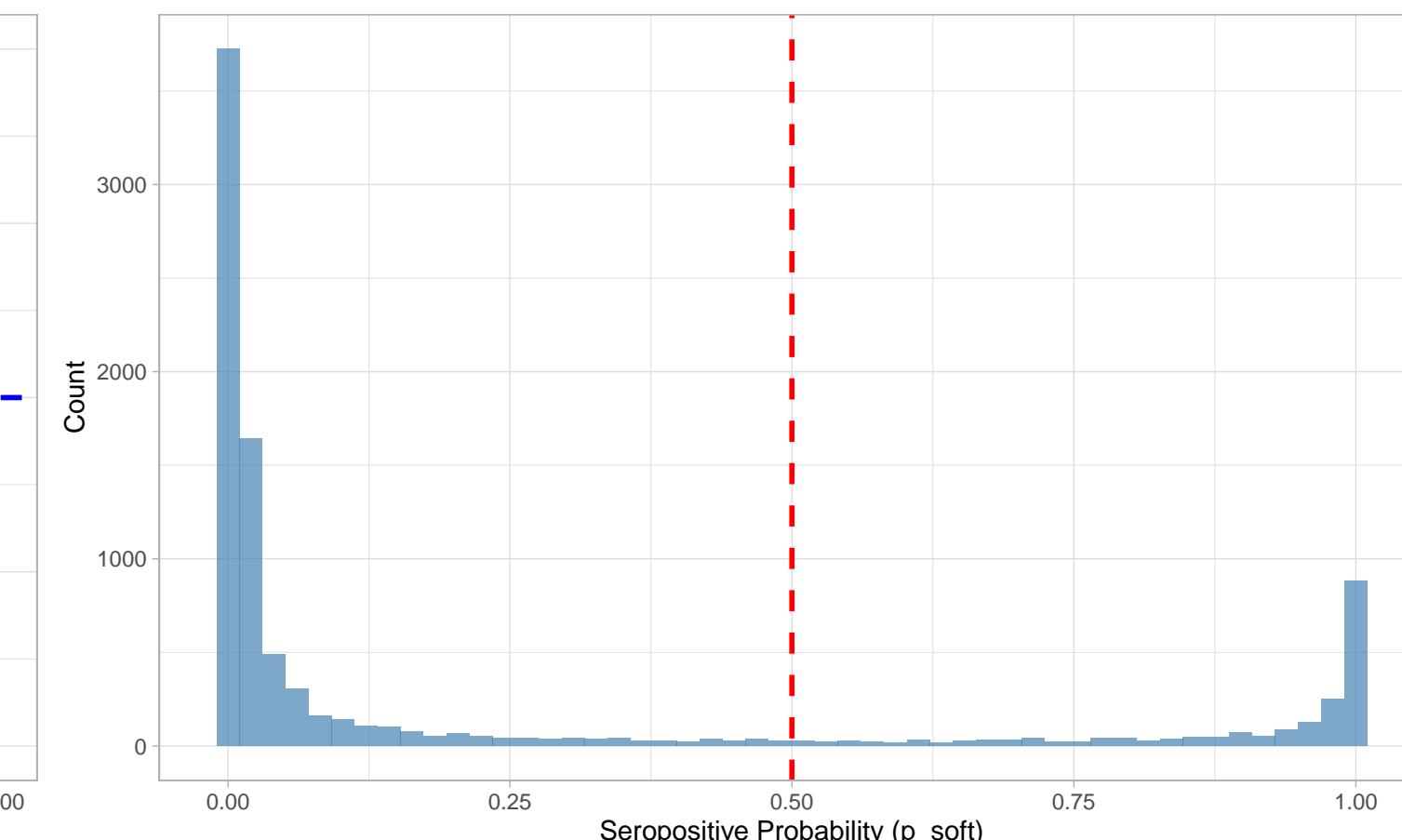
IgG Level vs. Seropositive Probability: ct_tarpf2

Red line = BL threshold, Blue line = 50% probability



Distribution of Seropositive Probabilities: ct_tarpf2

Red line = 50% threshold



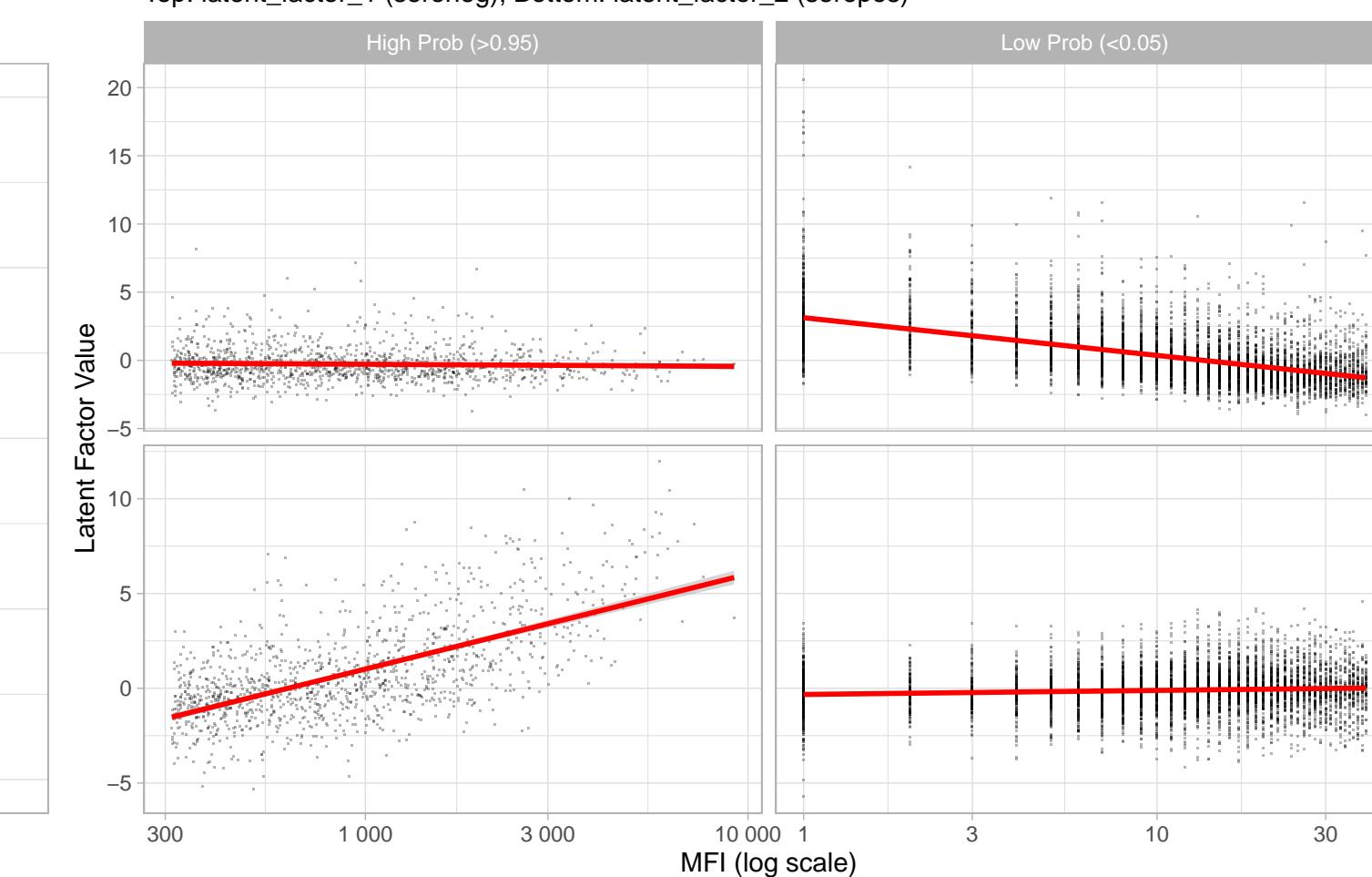
Hard Calls vs. Soft Probability: ct_tarpf2

Comparing BL and Mixture-Model hard calls against p_soft



Latent Factor Components vs IgG Level: ct_tarpf2

Top: latent_factor_1 (seroneg), Bottom: latent_factor_2 (seropos)

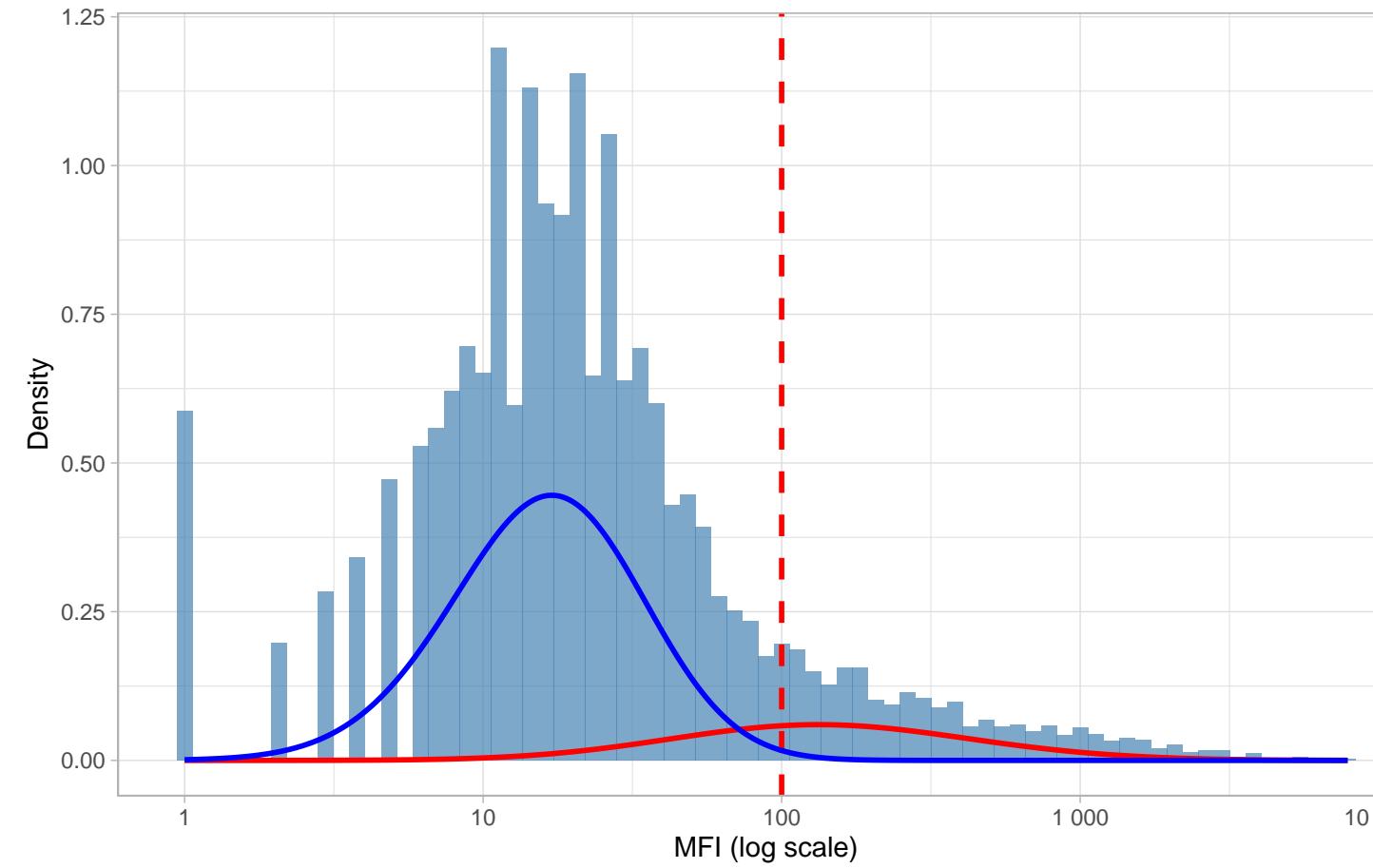


Comprehensive Diagnostics: ct_momp

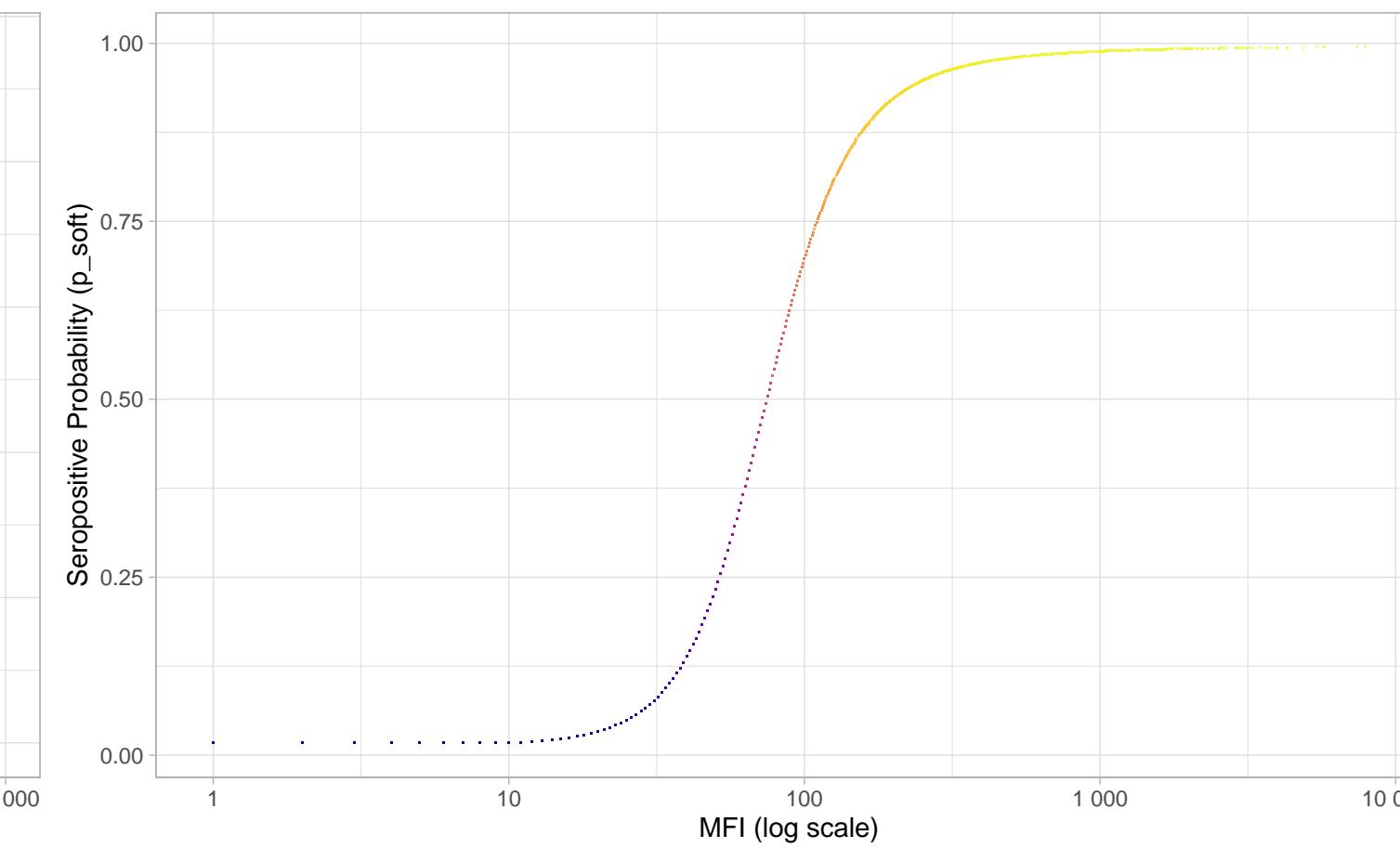
N=9424 | >0.95=539 | <0.05=5871 | Ambiq=301

MFI Distribution: ct_mompa

BL Hard Threshold = 100

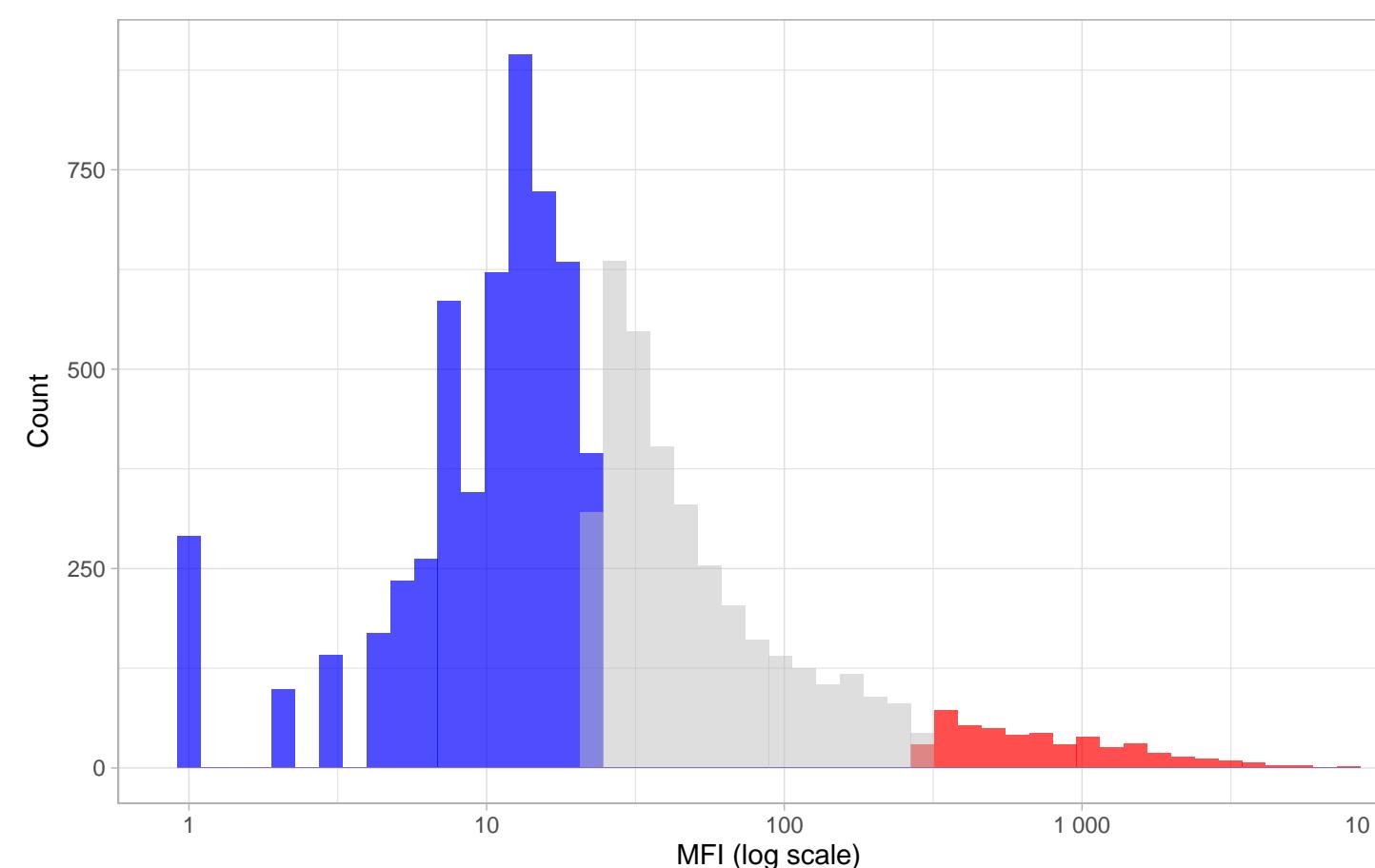


IgG vs Seropositive Probability: ct_mor



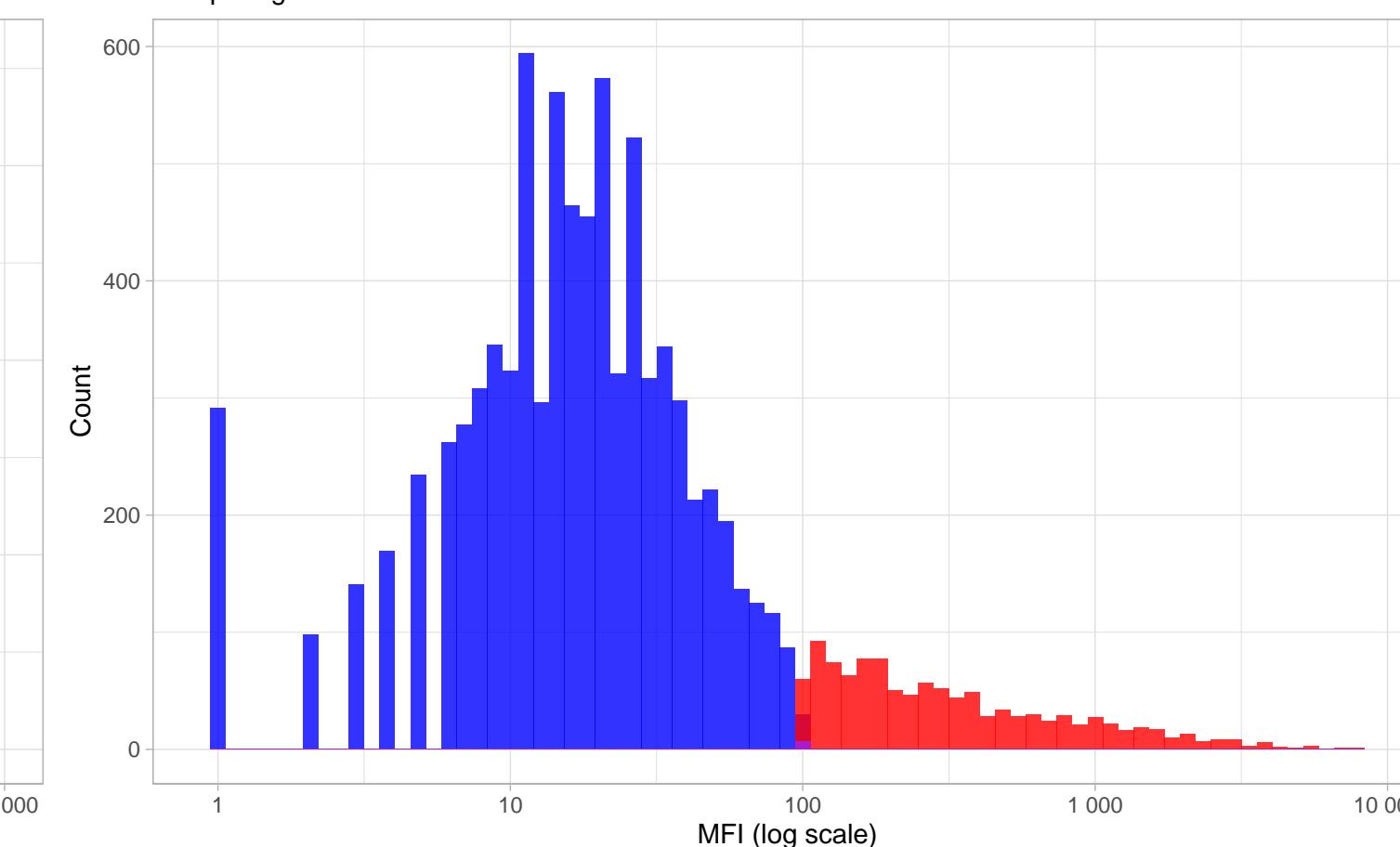
Distribution by Confidence: ct_momp

Prob threshold = 0.96



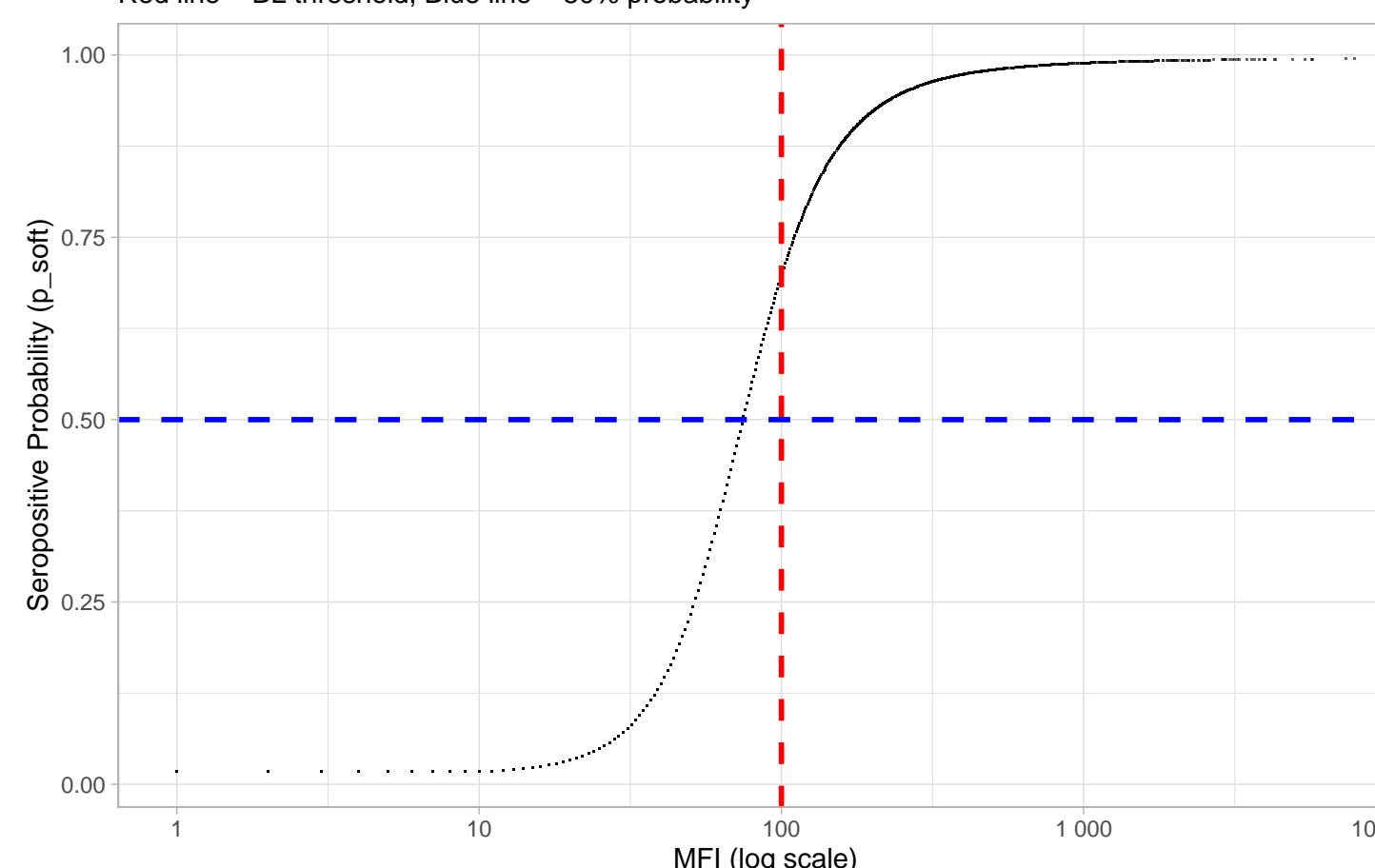
Phenotype Distribution by Classification: ct_mon

Comparing BL vs. Mixture–Model Hard



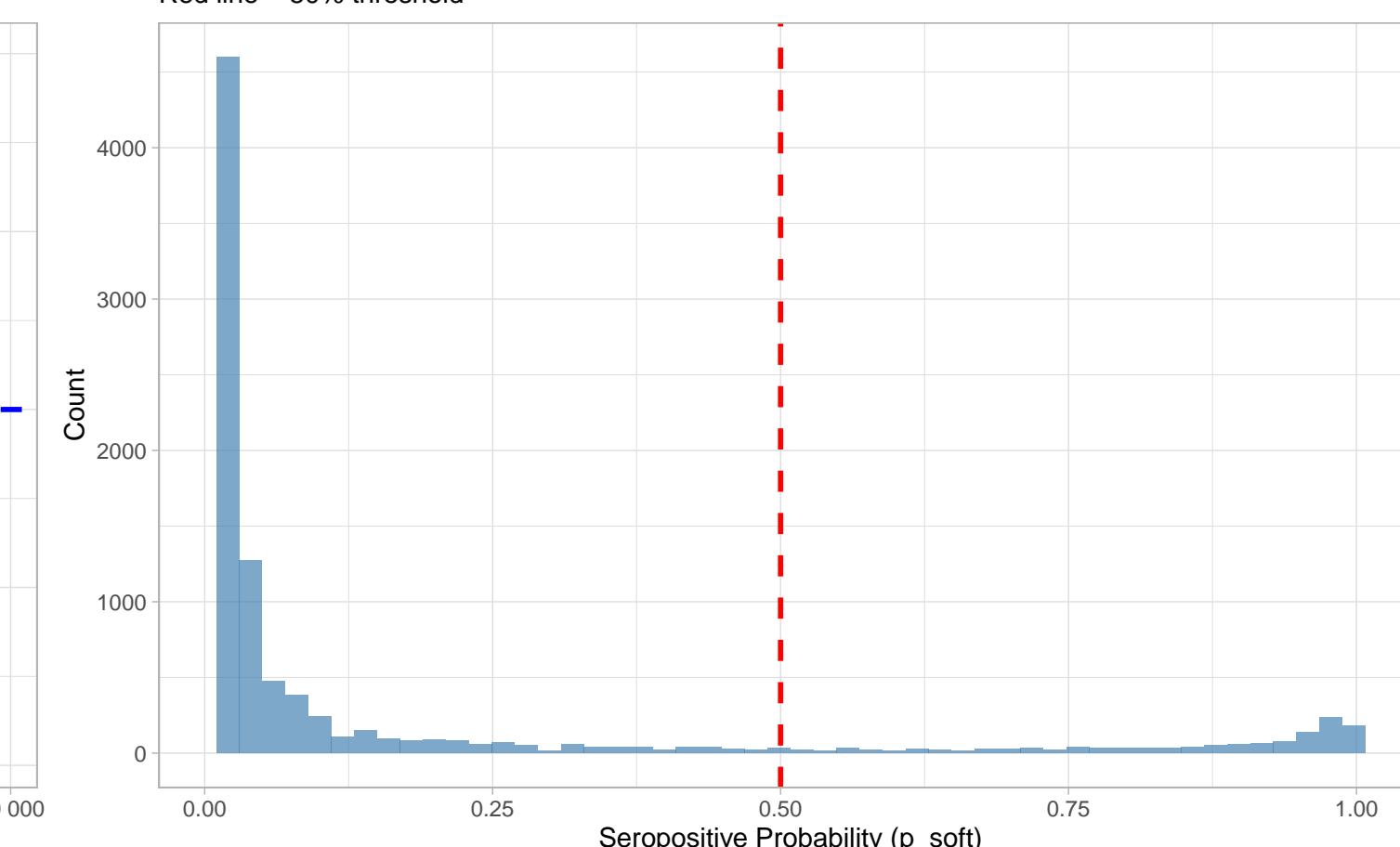
IgG Level vs. Seropositive Probability: ct_momp

Red line = BL threshold, Blue line = 50% probability



Distribution of Seropositive Probabilities: ct_mom

Red line = 50% thre



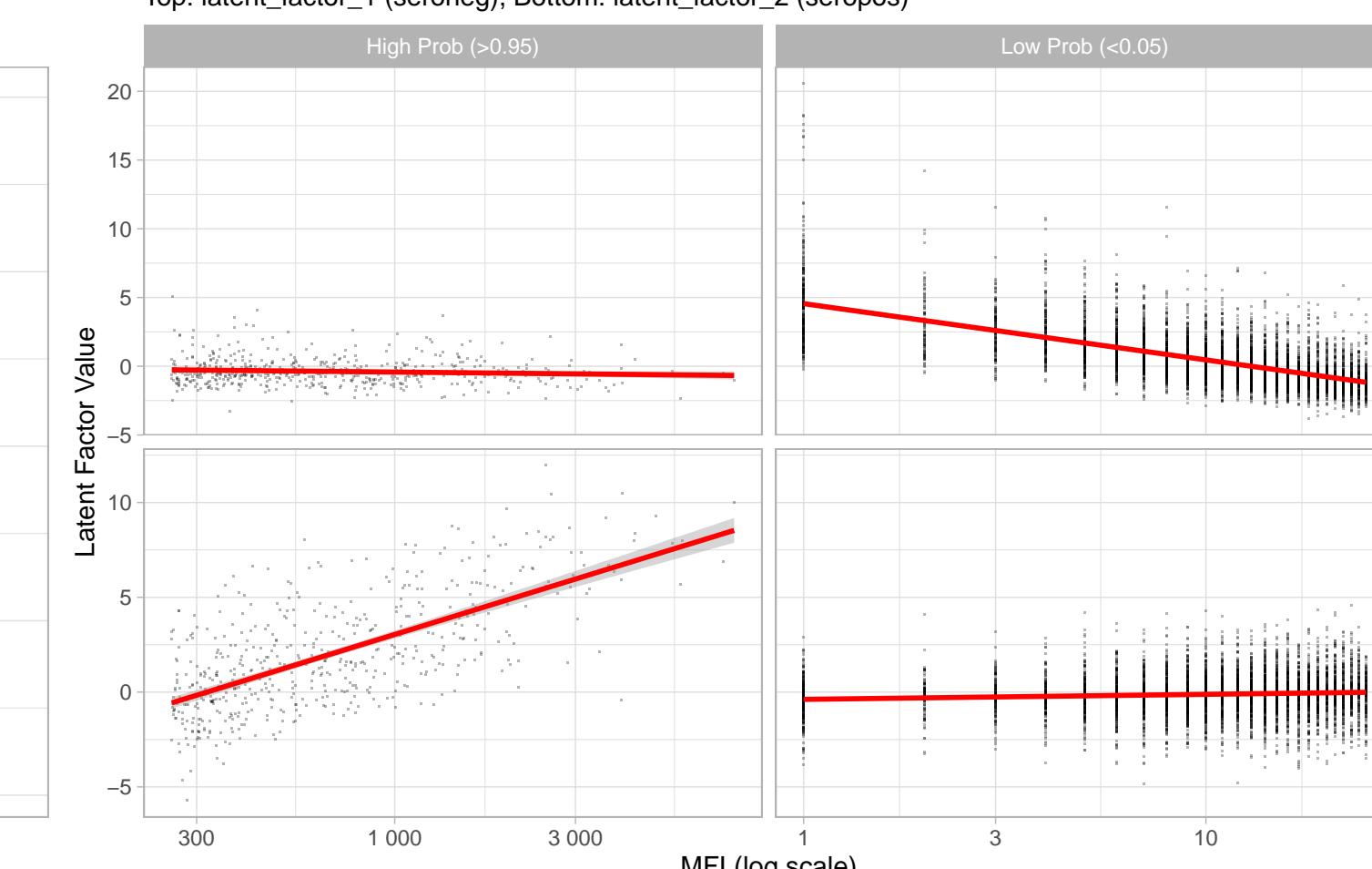
Hard Calls vs. Soft Probability: ct_momp

Comparing BL and Mixture–Model hard calls against p.s.



Latent Factor Components vs IgG Level: ct_mom

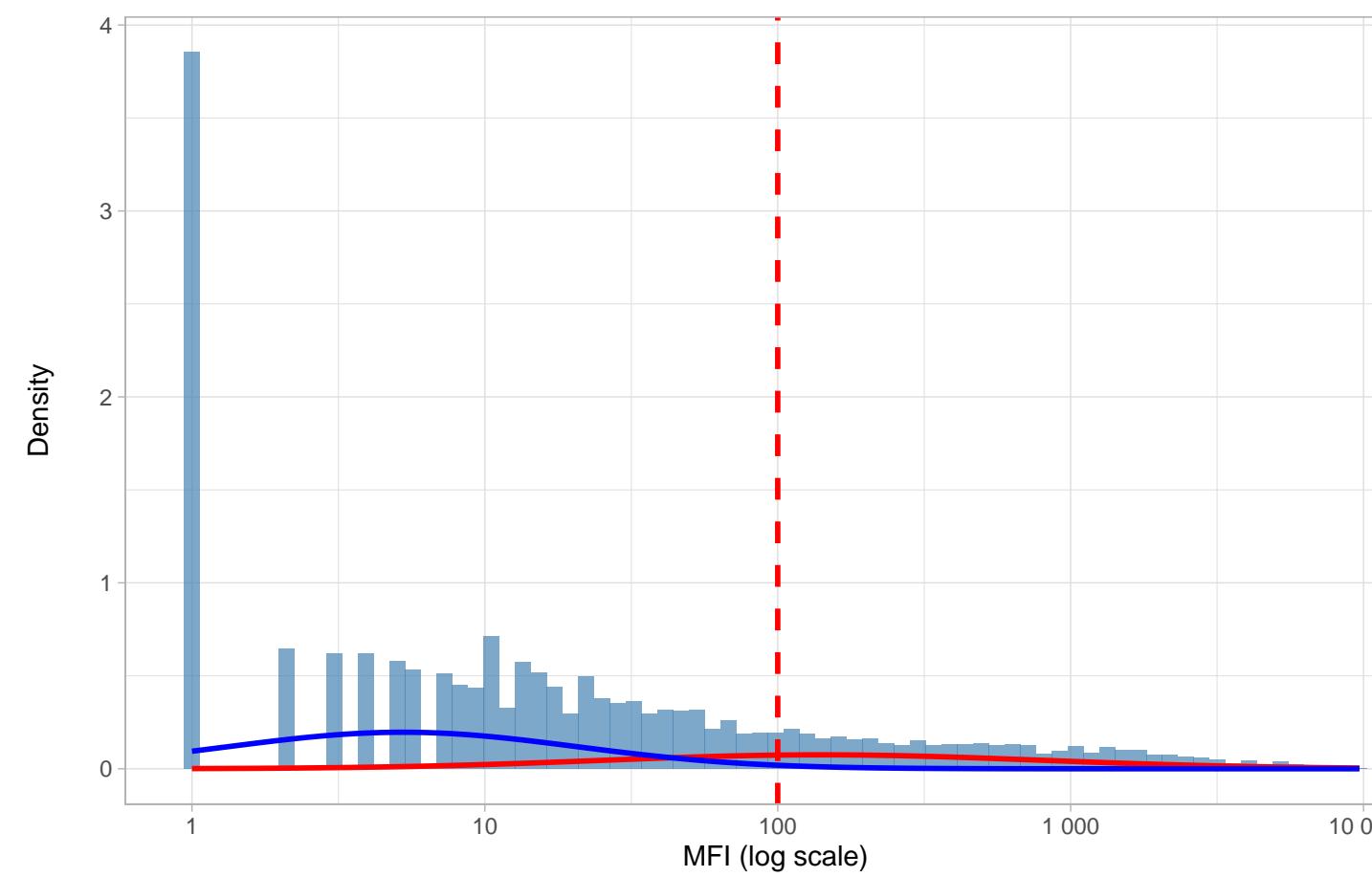
Top: latent factor 1 (seroneg), Bottom: latent factor 2 (seropos)



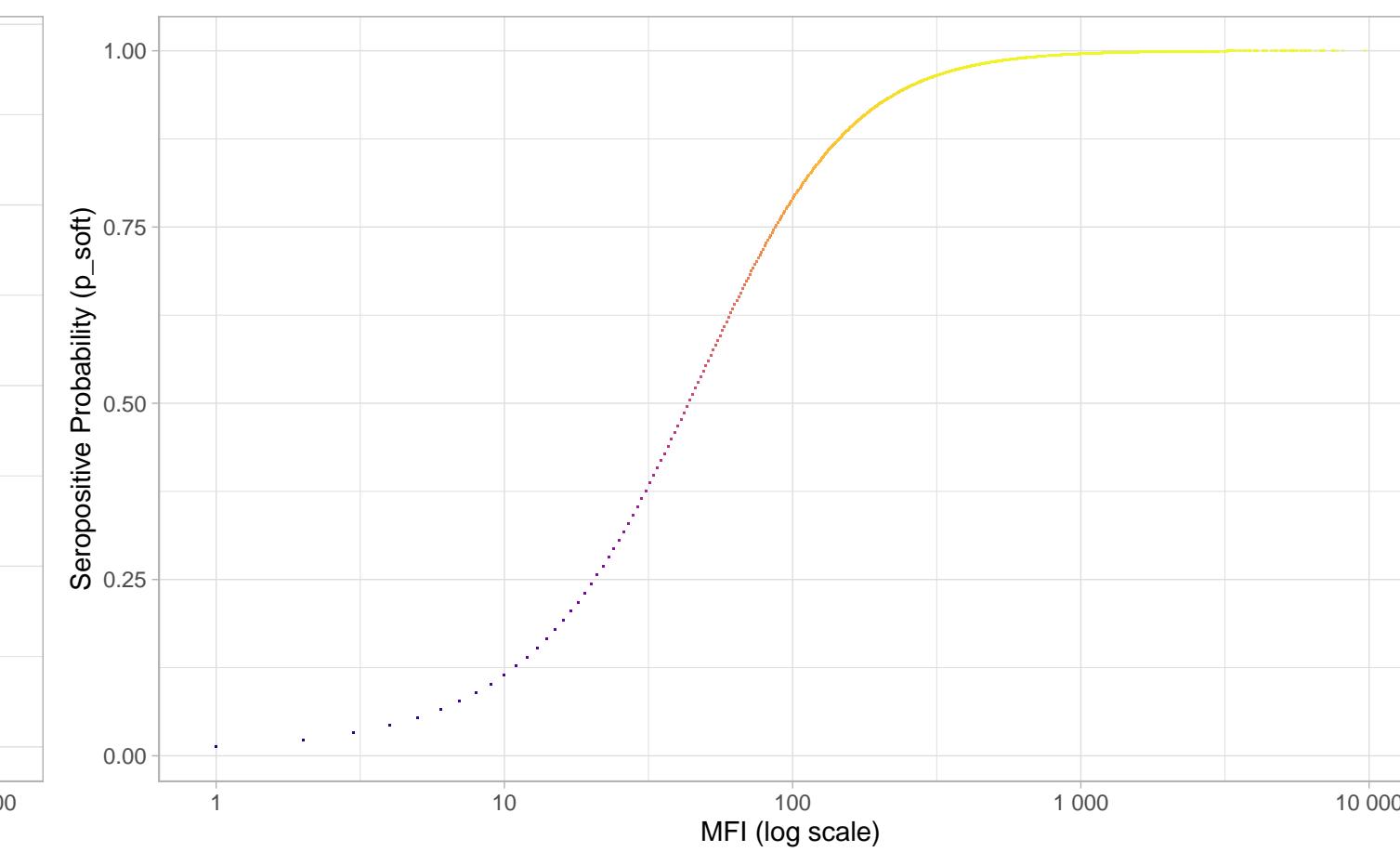
Comprehensive Diagnostics: ct_tarpf1

N=9424 | >0.95=1197 | <0.05=2912 | Ambig=5315

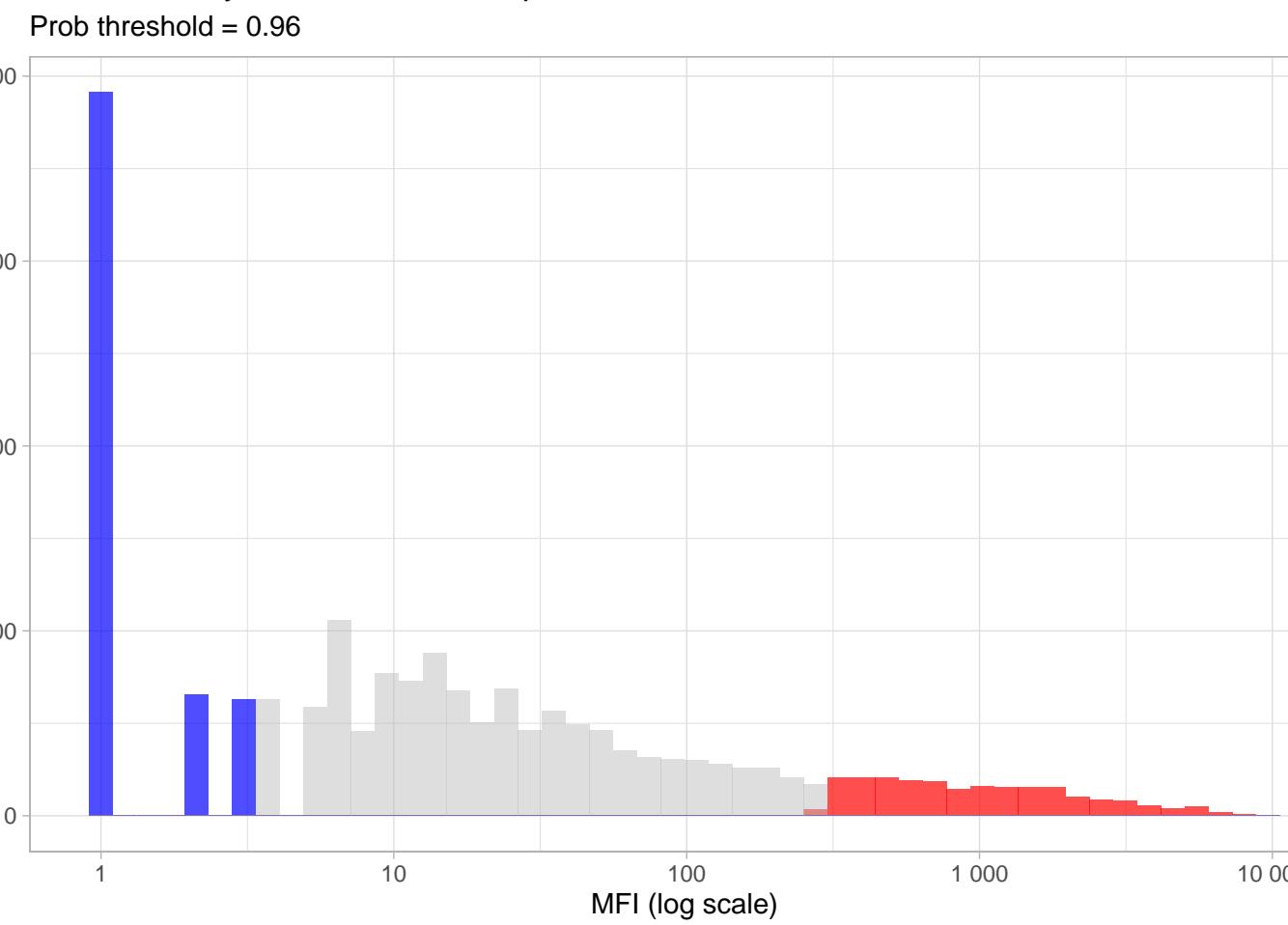
MFI Distribution: ct_tarpf1
BL Hard Threshold = 100



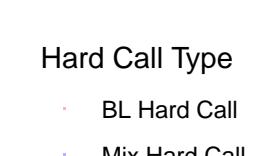
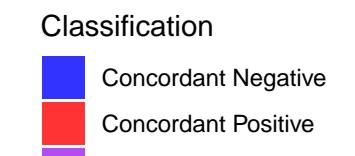
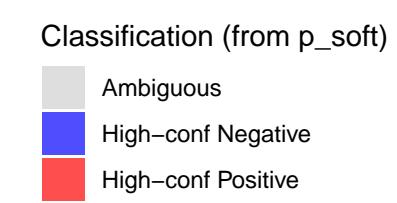
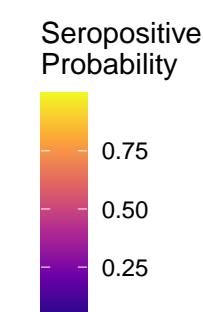
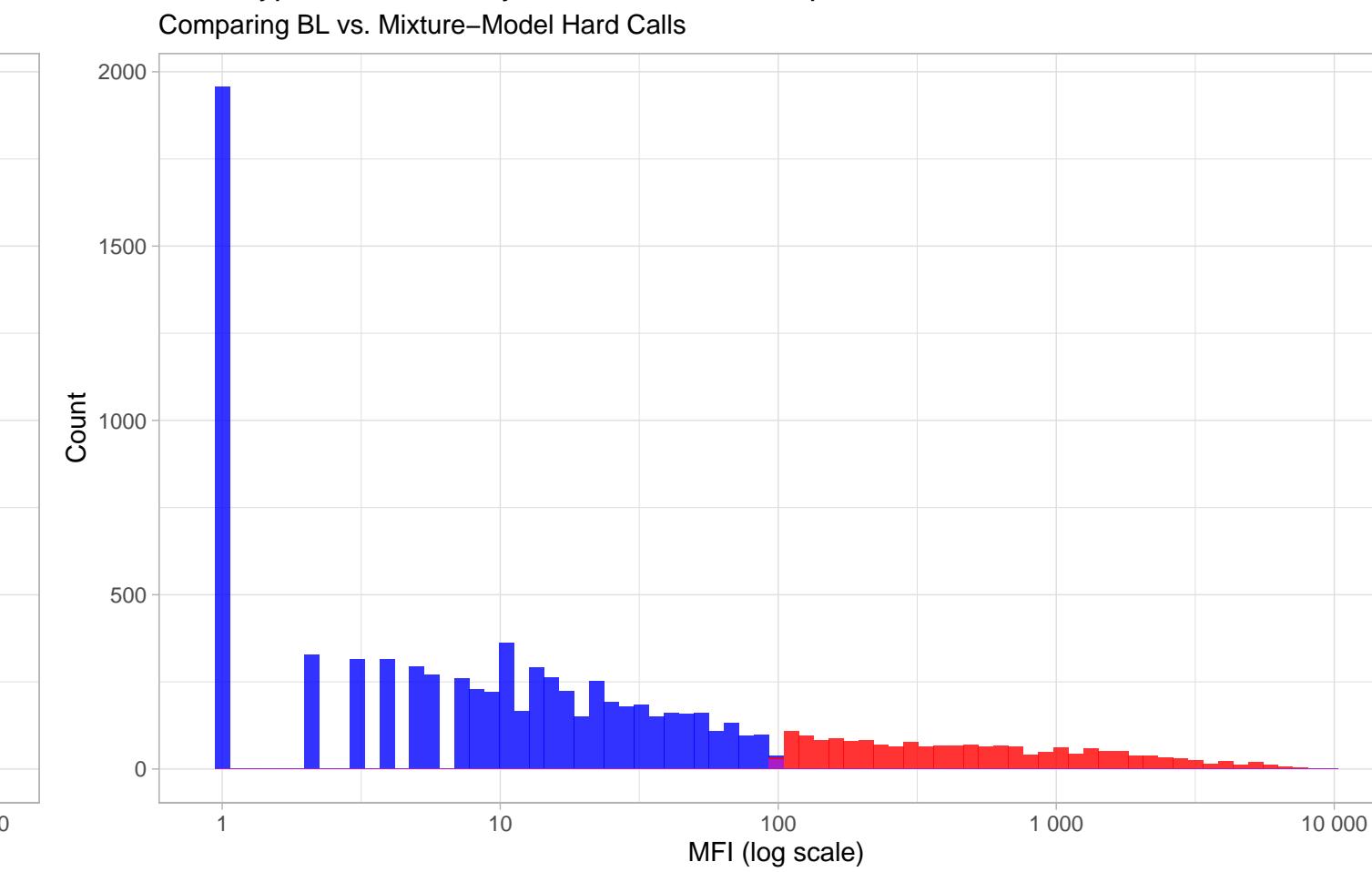
IgG vs Seropositive Probability: ct_tarpf1



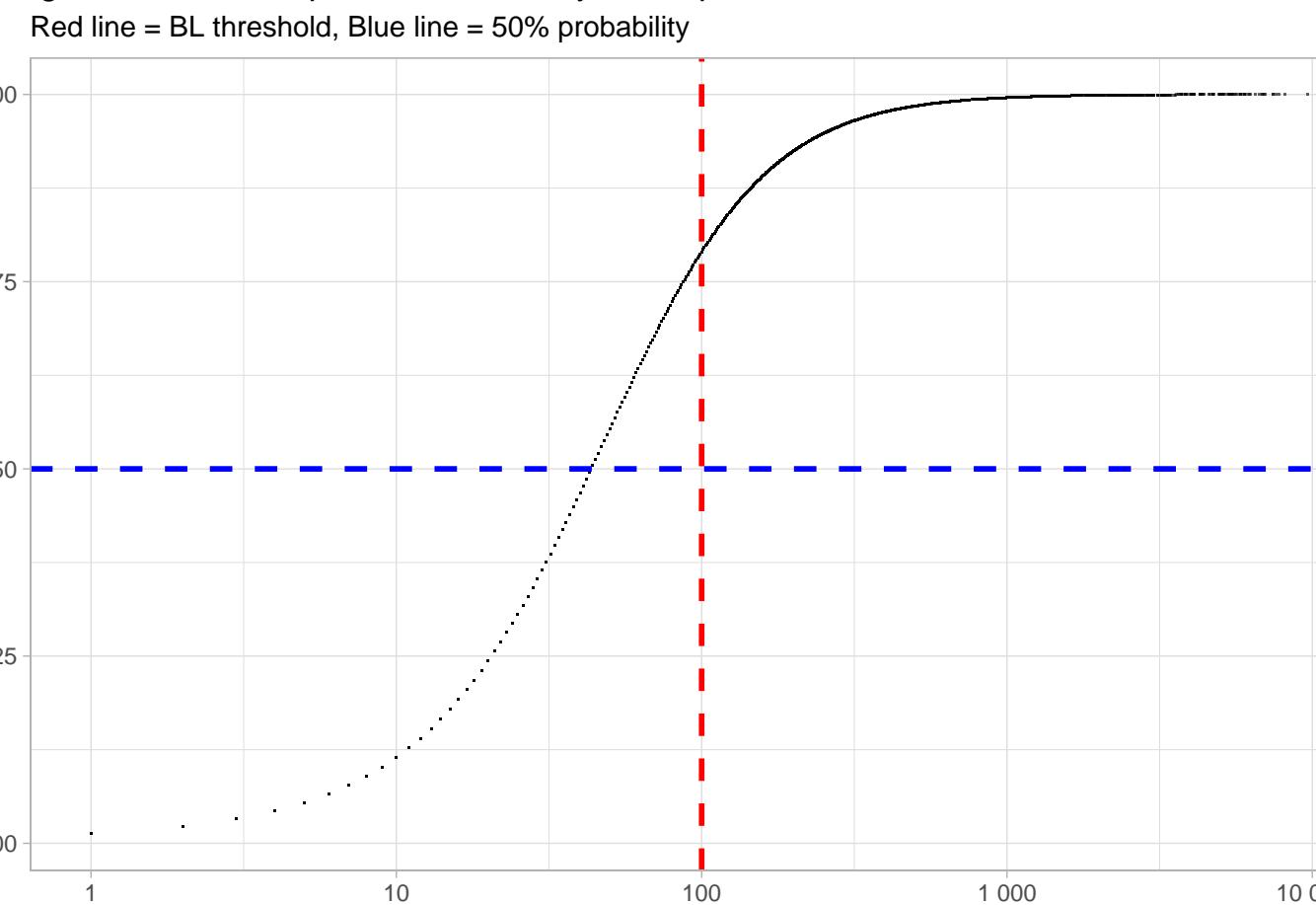
Distribution by Confidence: ct_tarpf1



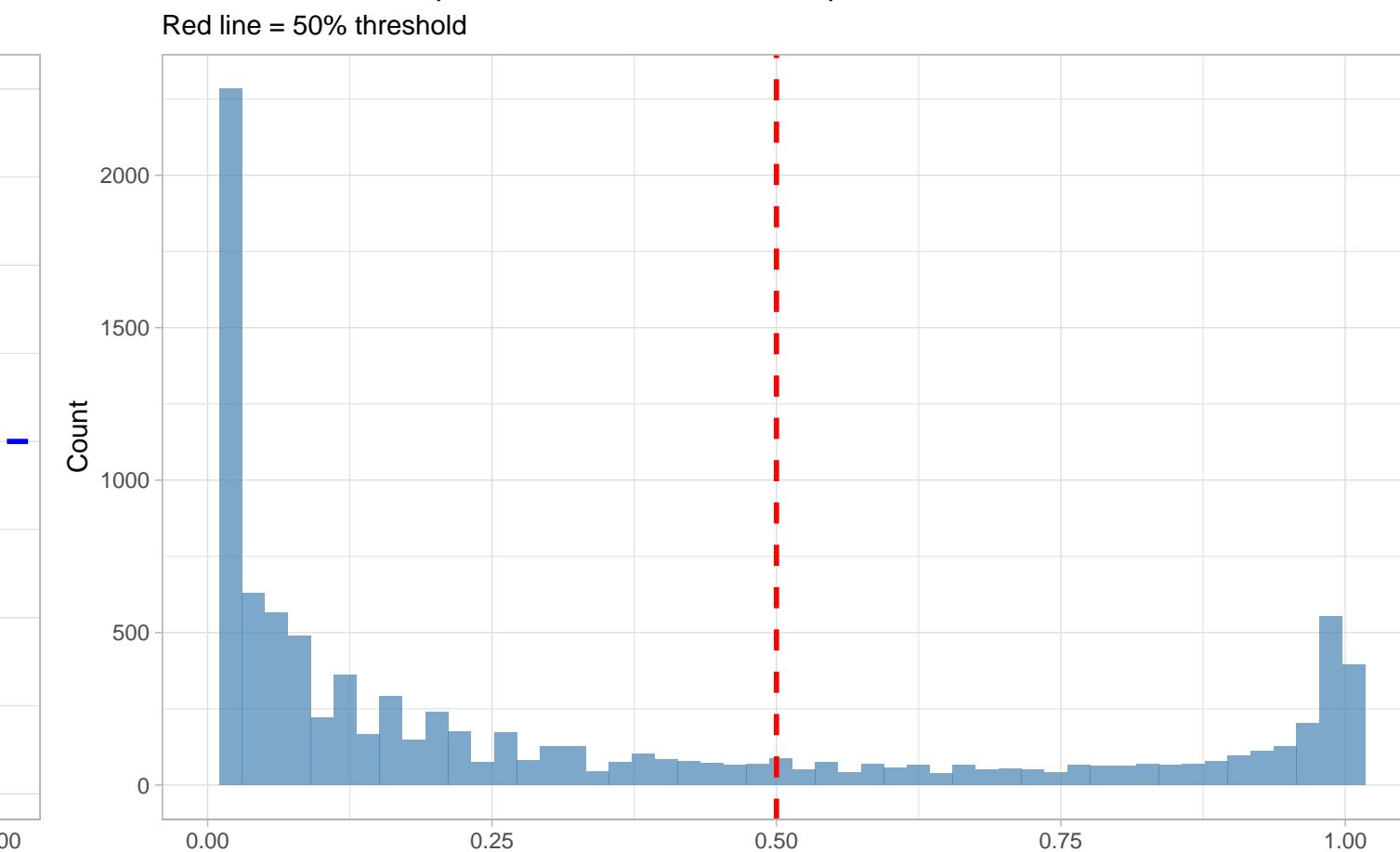
Phenotype Distribution by Classification: ct_tarpf1



IgG Level vs. Seropositive Probability: ct_tarpf1



Distribution of Seropositive Probabilities: ct_tarpf1



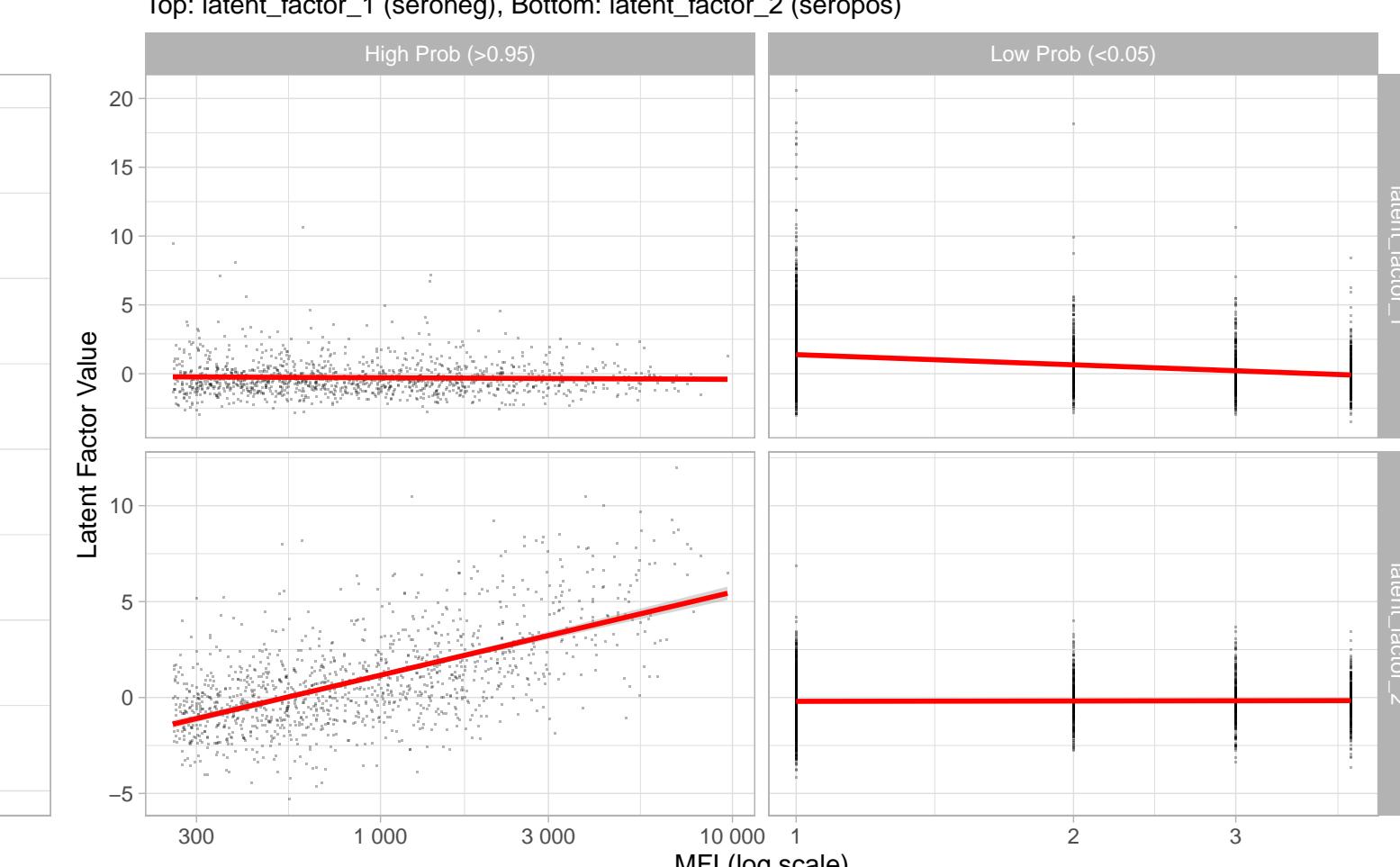
Hard Calls vs. Soft Probability: ct_tarpf1

Comparing BL and Mixture-Model hard calls against p_soft



Latent Factor Components vs IgG Level: ct_tarpf1

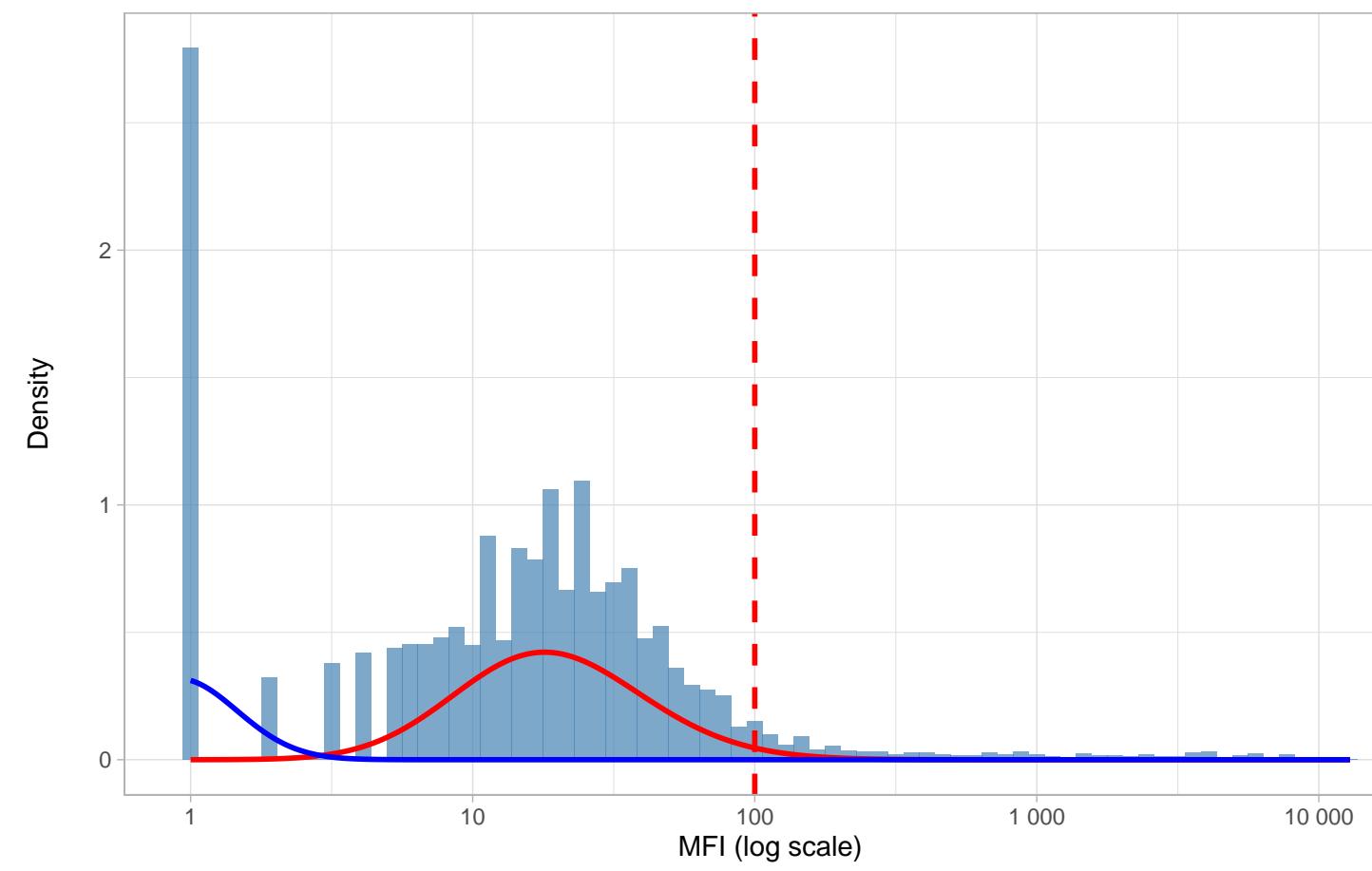
Top: latent_factor_1 (seroneg), Bottom: latent_factor_2 (seropos)



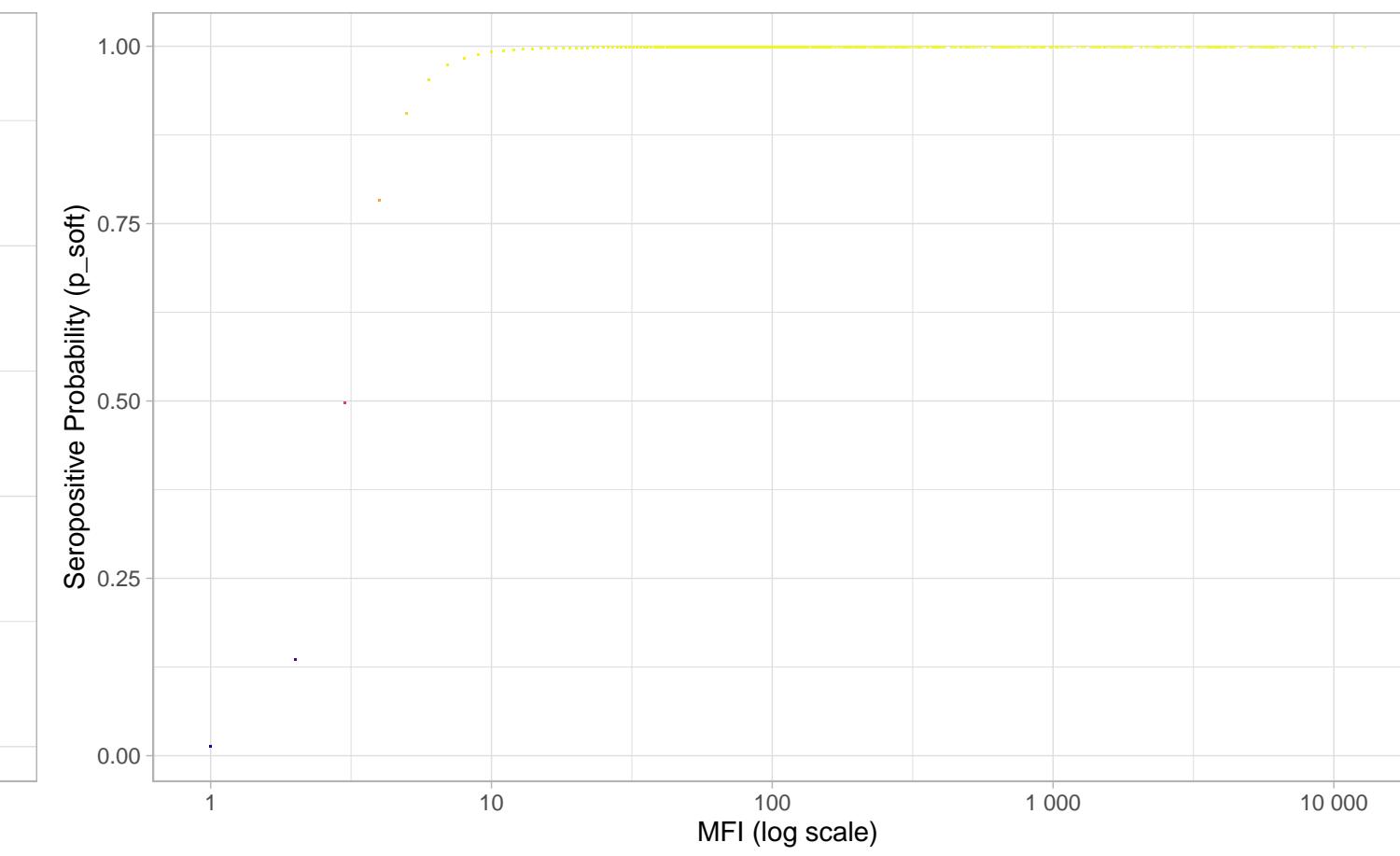
Comprehensive Diagnostics: kshv_lana

N=9424 | >0.95=7148 | <0.05=1462 | Ambig=814

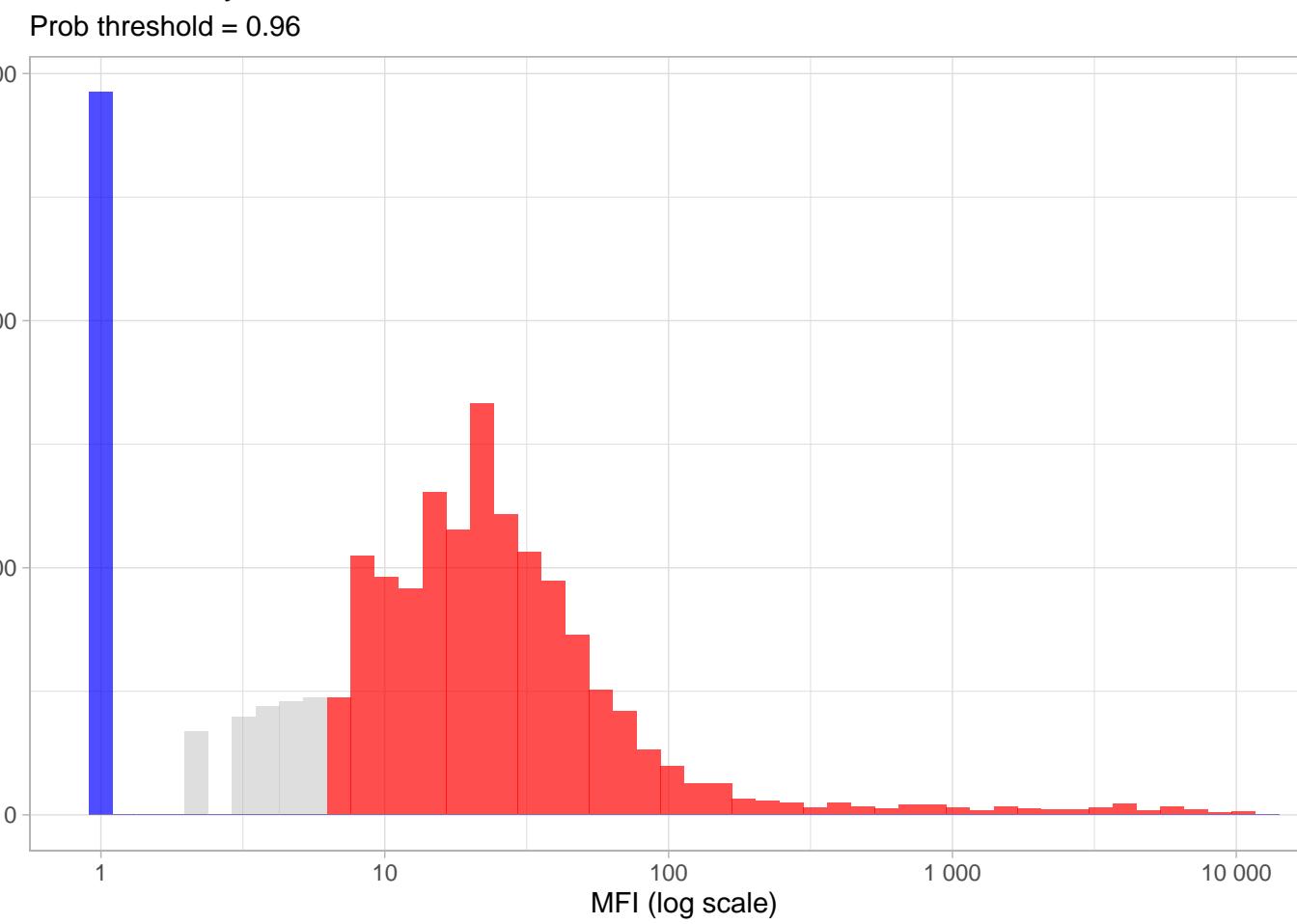
MFI Distribution: kshv_lana
BL Hard Threshold = 100



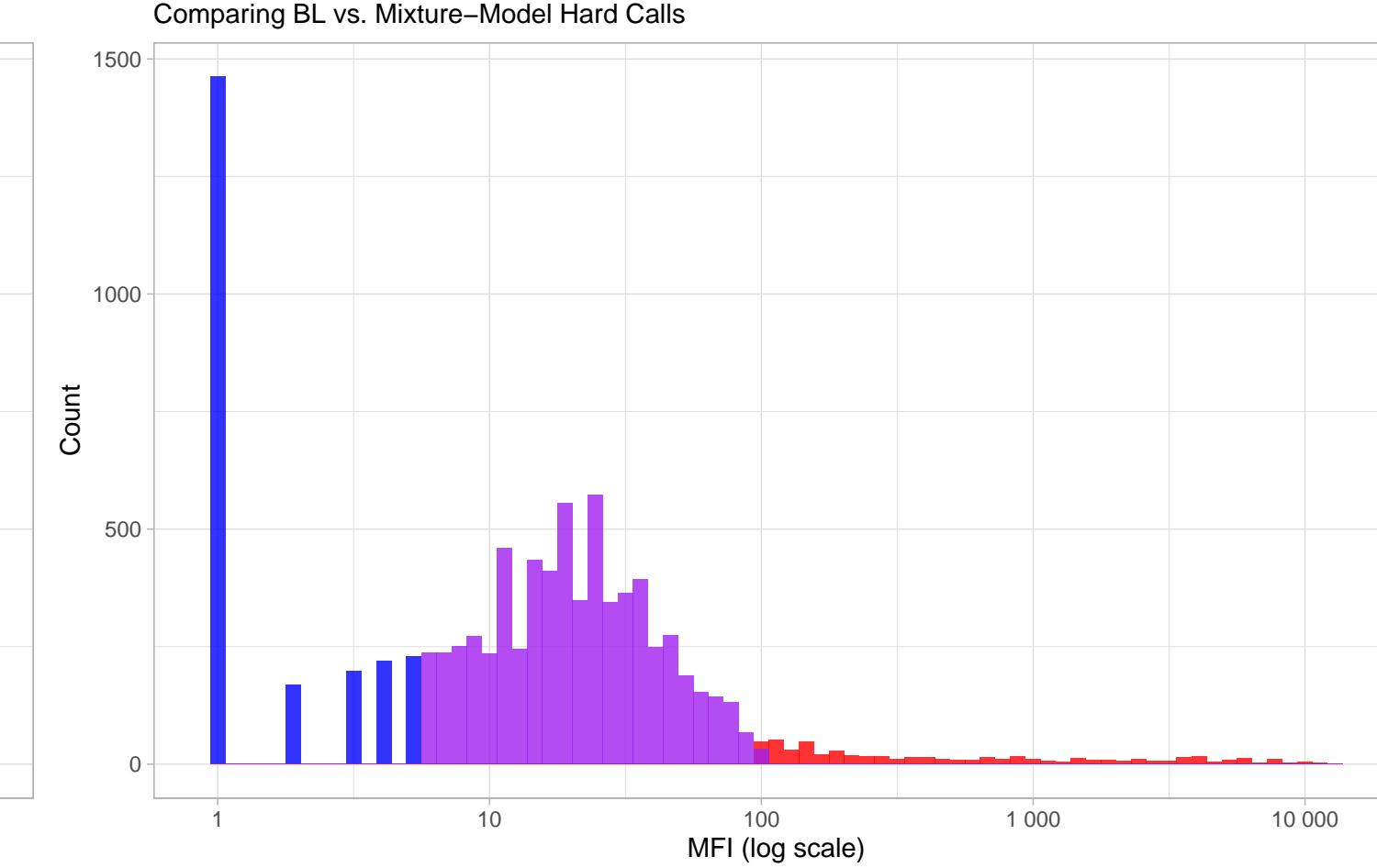
IgG vs Seropositive Probability: kshv_lana



Distribution by Confidence: kshv_lana

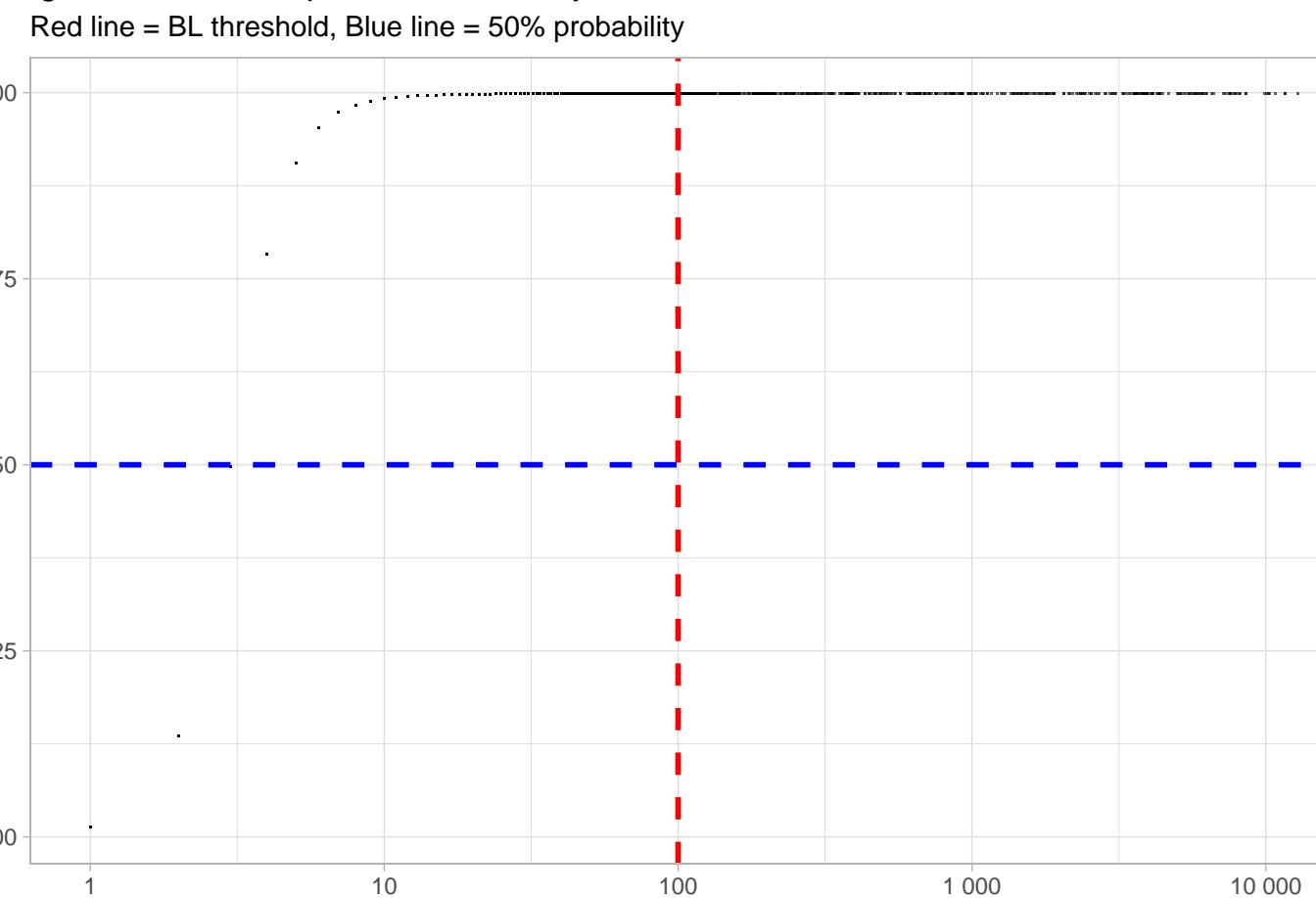


Phenotype Distribution by Classification: kshv_lana

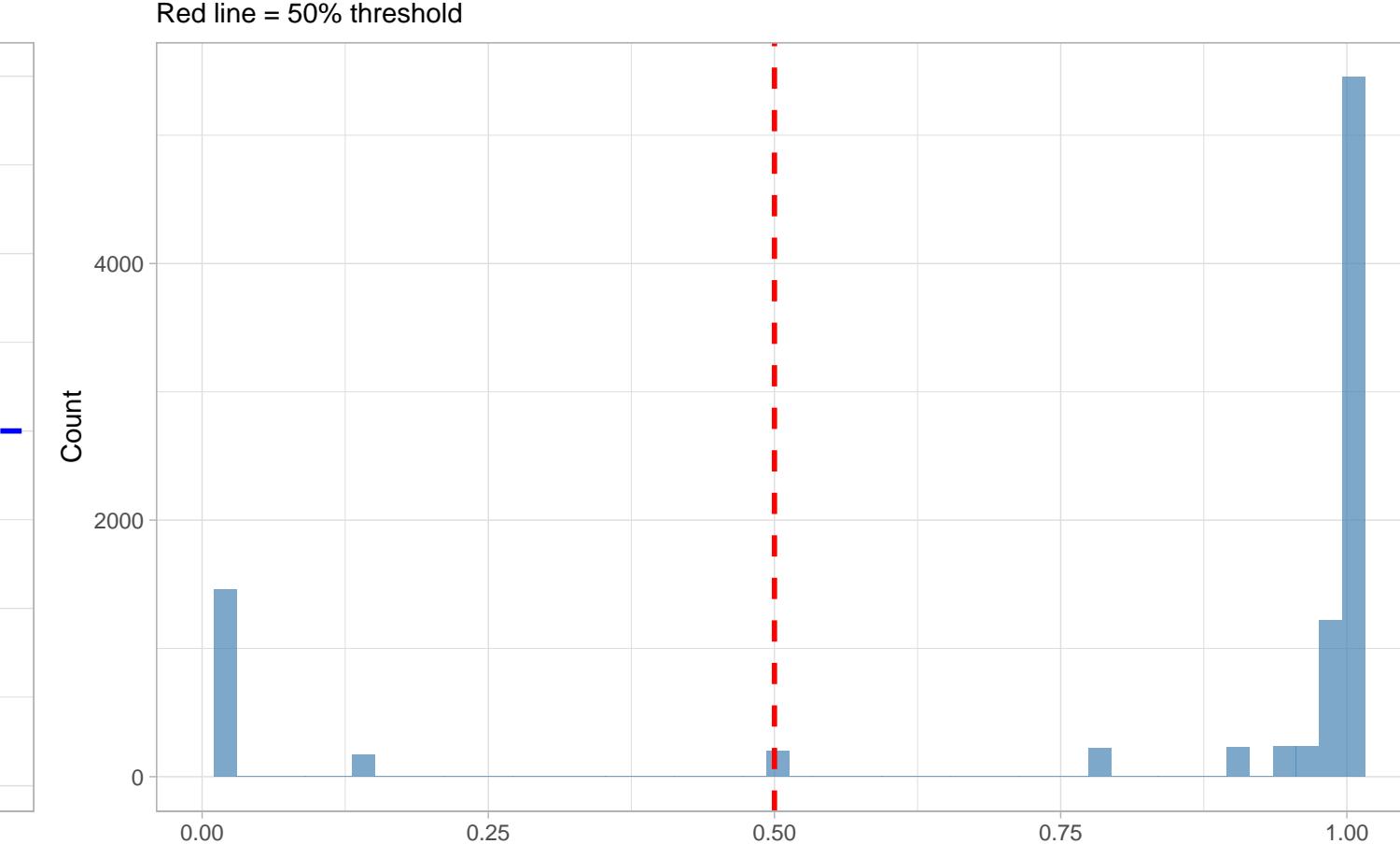


- Seropositive Probability**
 - 0.75 (yellow)
 - 0.50 (orange)
 - 0.25 (red)
 - 0.00 (purple)
- Classification (from p_soft)**
 - Ambiguous (grey)
 - High-conf Negative (blue)
 - High-conf Positive (red)
- Classification**
 - Concordant Negative (blue)
 - Concordant Positive (red)
 - Discordant (BL-, Mix+) (purple)
- Hard Call Type**
 - BL Hard Call (red dot)
 - Mix Hard Call (blue dot)

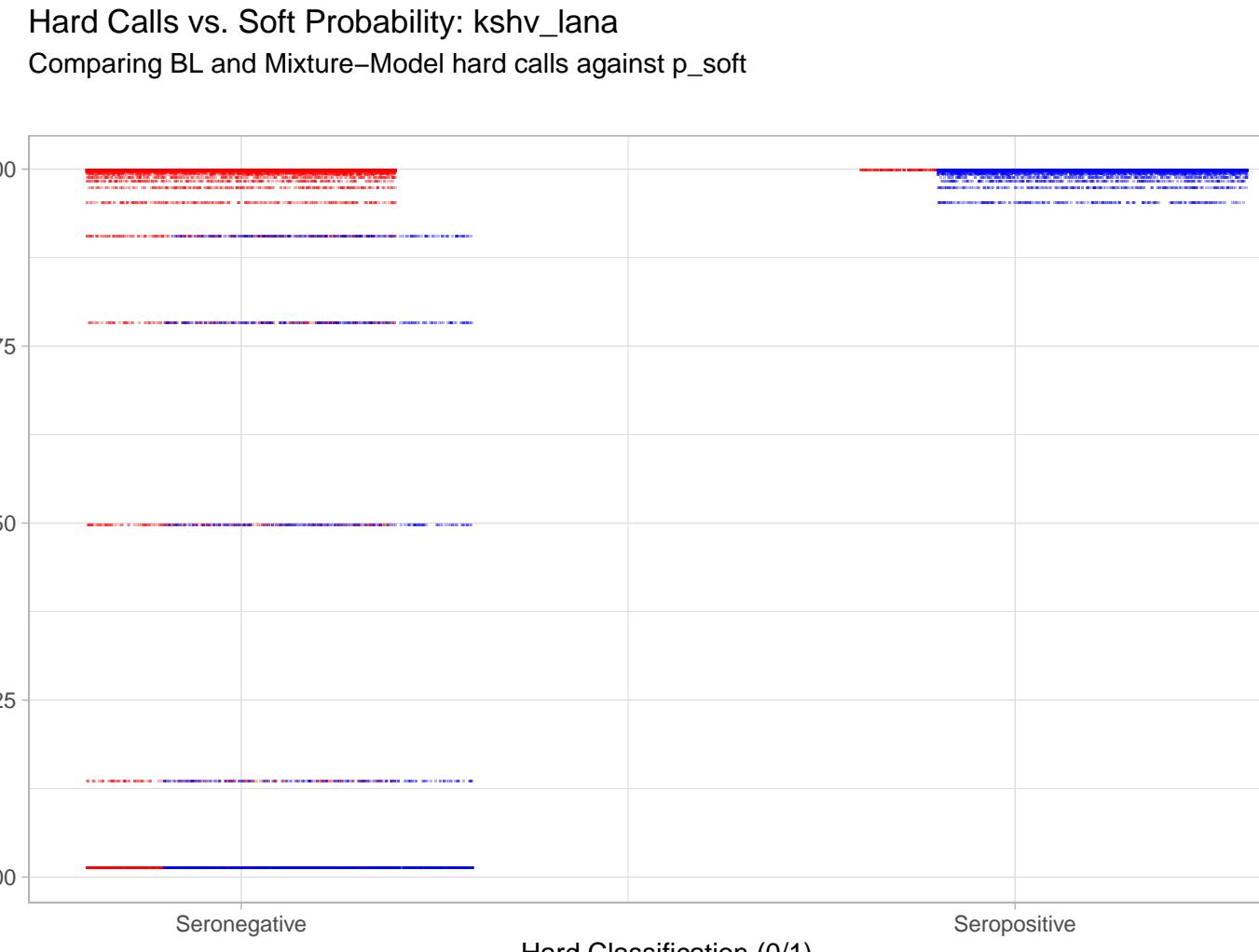
IgG Level vs. Seropositive Probability: kshv_lana



Distribution of Seropositive Probabilities: kshv_lana



Hard Calls vs. Soft Probability: kshv_lana



Latent Factor Components vs IgG Level: kshv_lana

