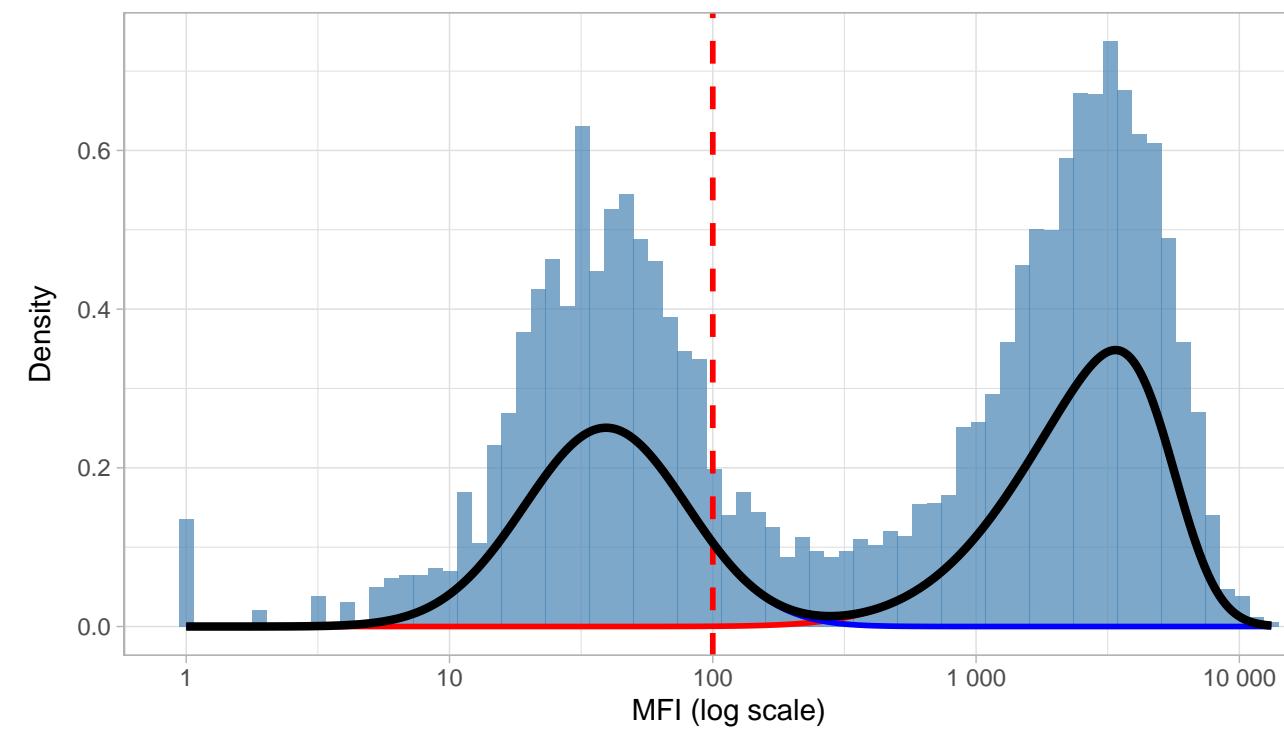


Diagnostics: cmv_pp150

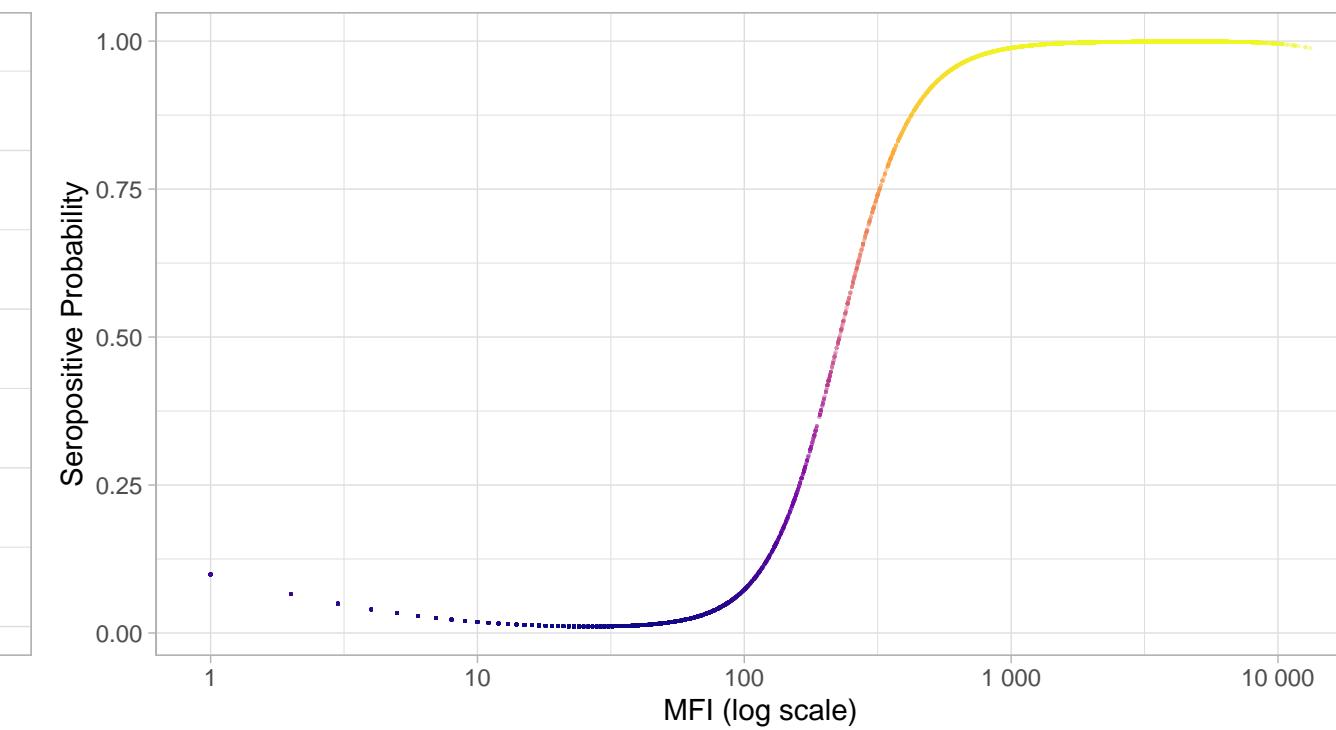
N=9424 | >0.95=4725 | <0.05=3590 | Ambig=1109

Original MFI Distribution: cmv_pp150

Hard cutoff threshold = 100

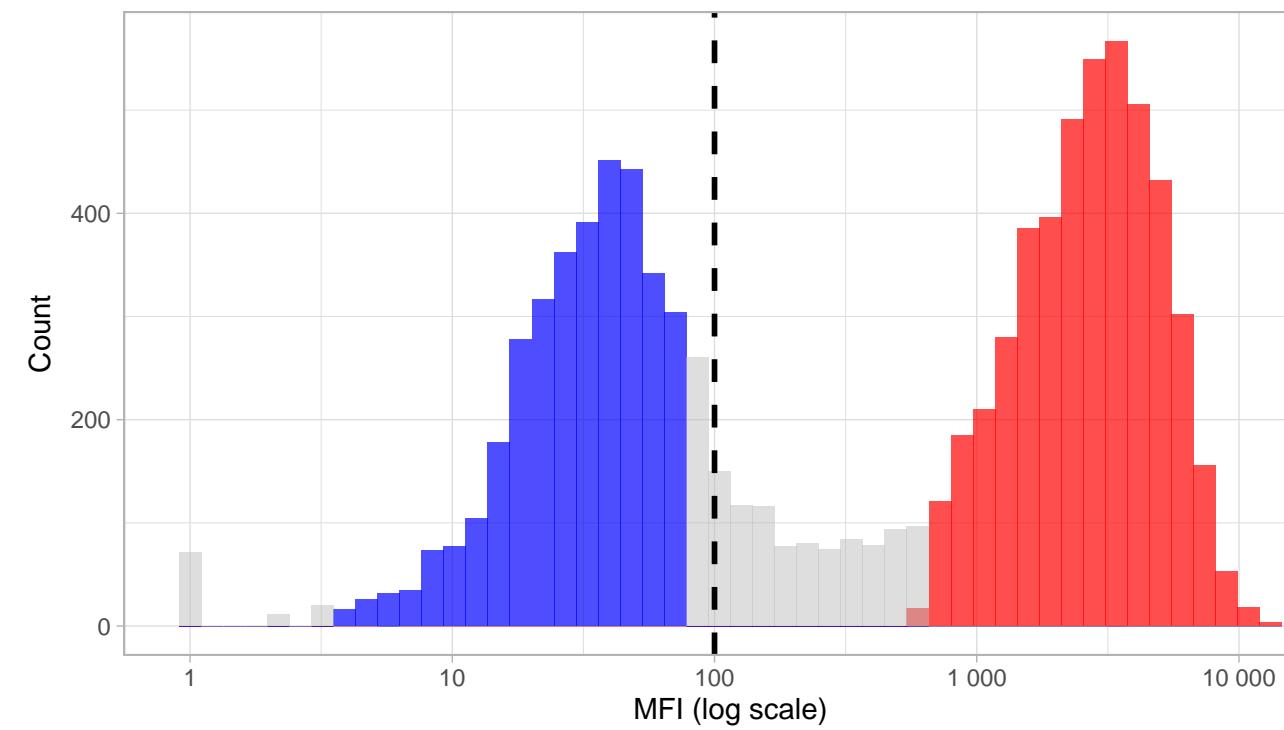


IgG vs Seropositive Probability: cmv_pp150



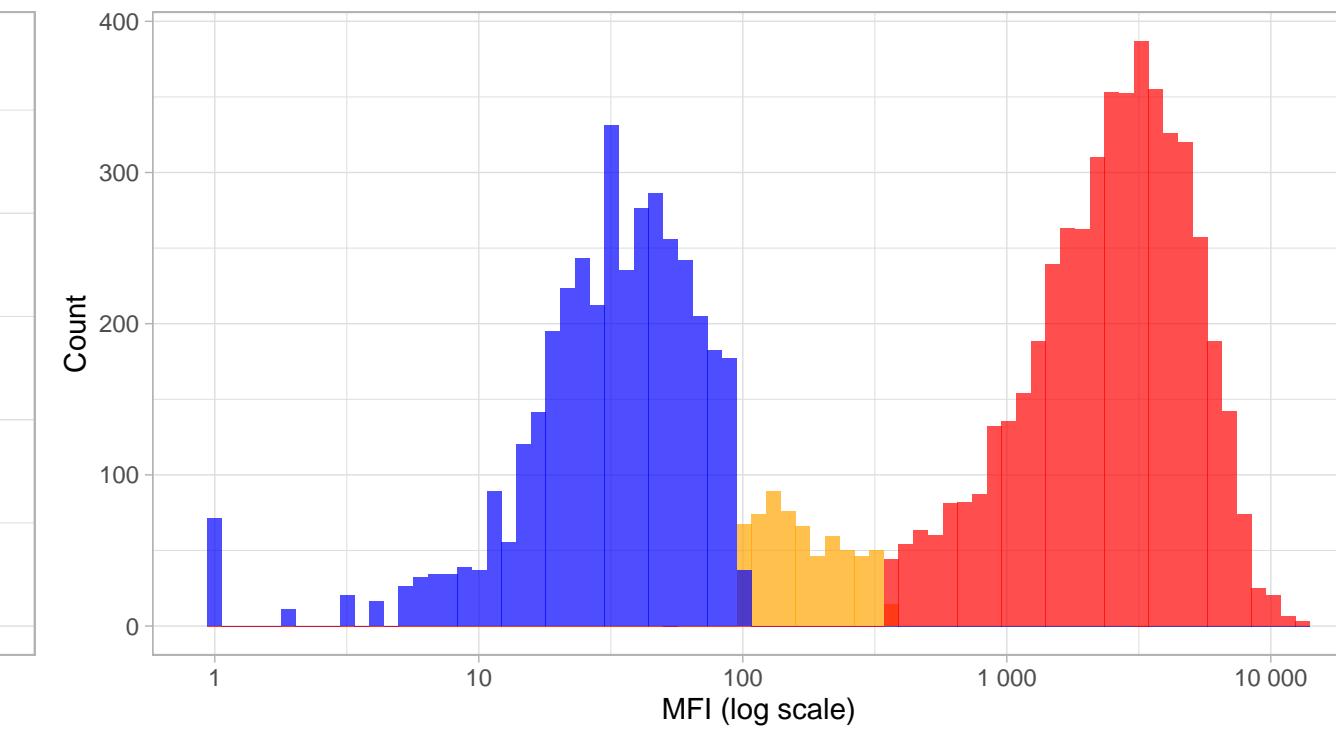
High-Confidence Seropositive Distribution: cmv_pp150

Prob threshold = 0.96



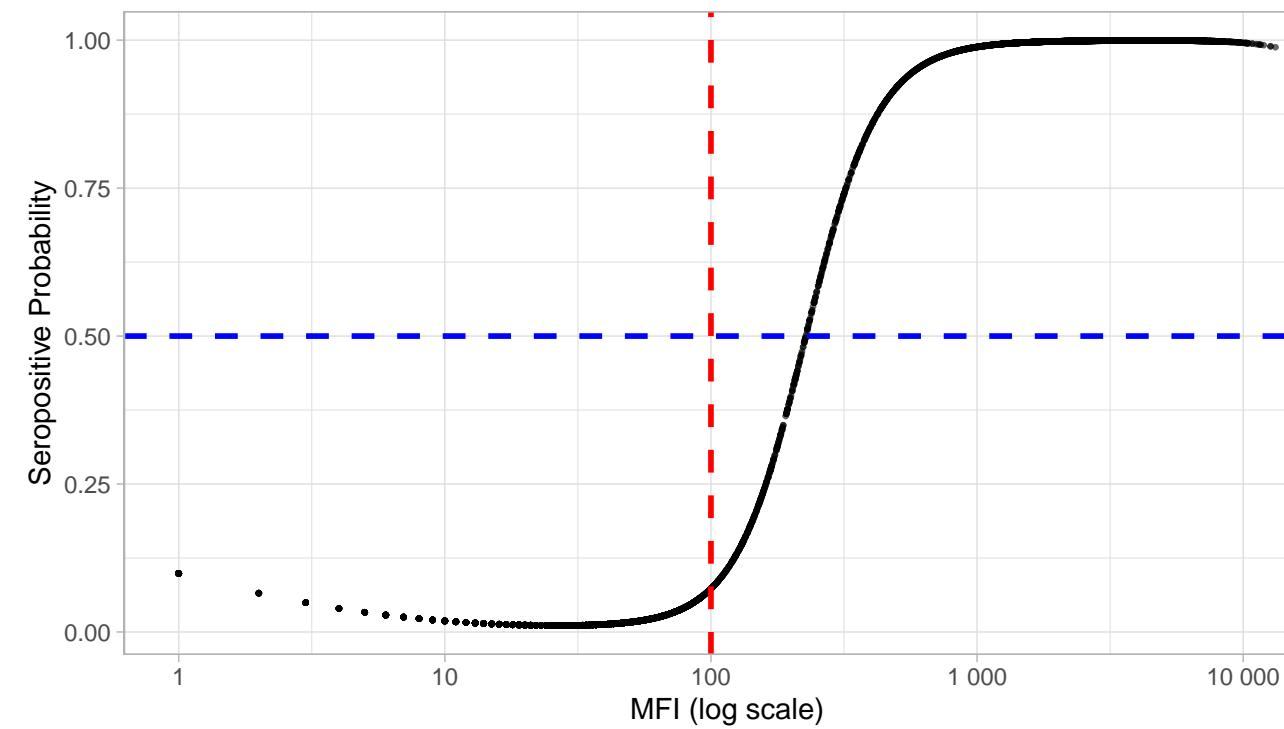
Phenotype Distribution by Classification: cmv_pp150

Comparing hard vs soft classifications



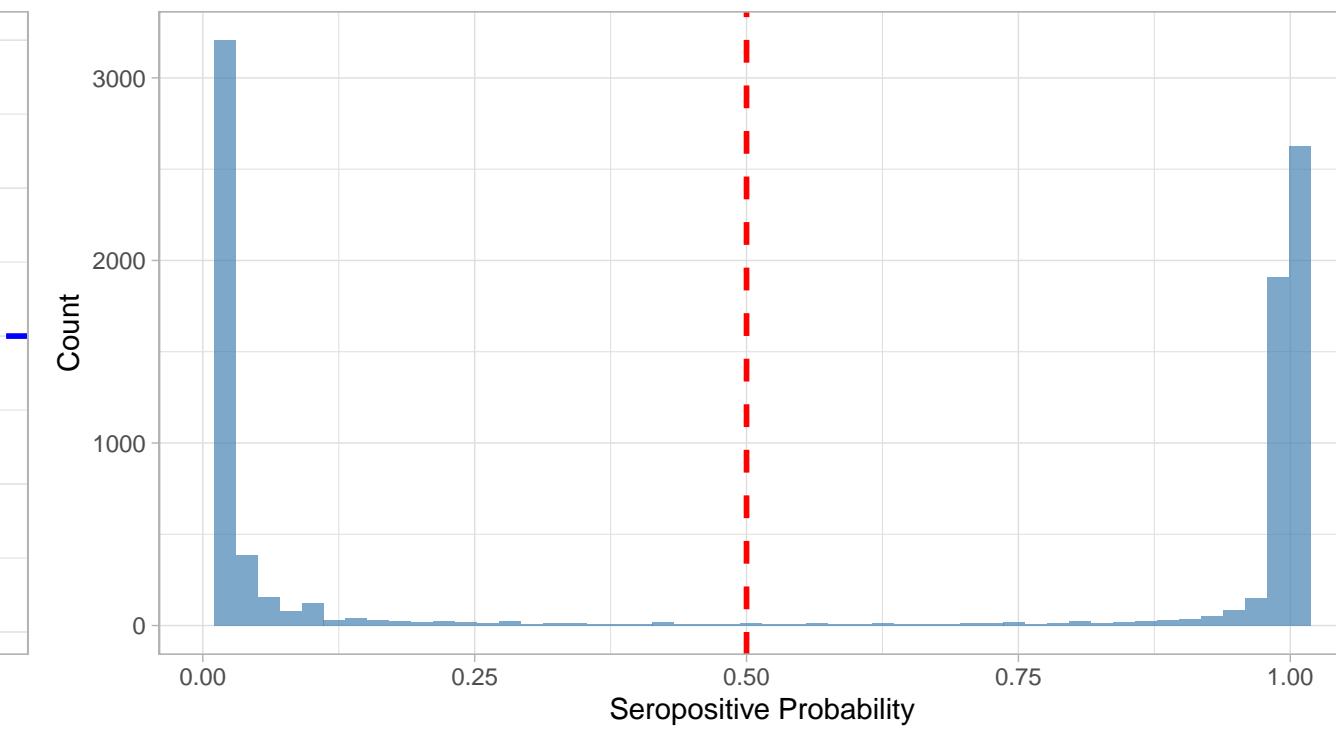
IgG Level vs Seropositive Probability: cmv_pp150

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



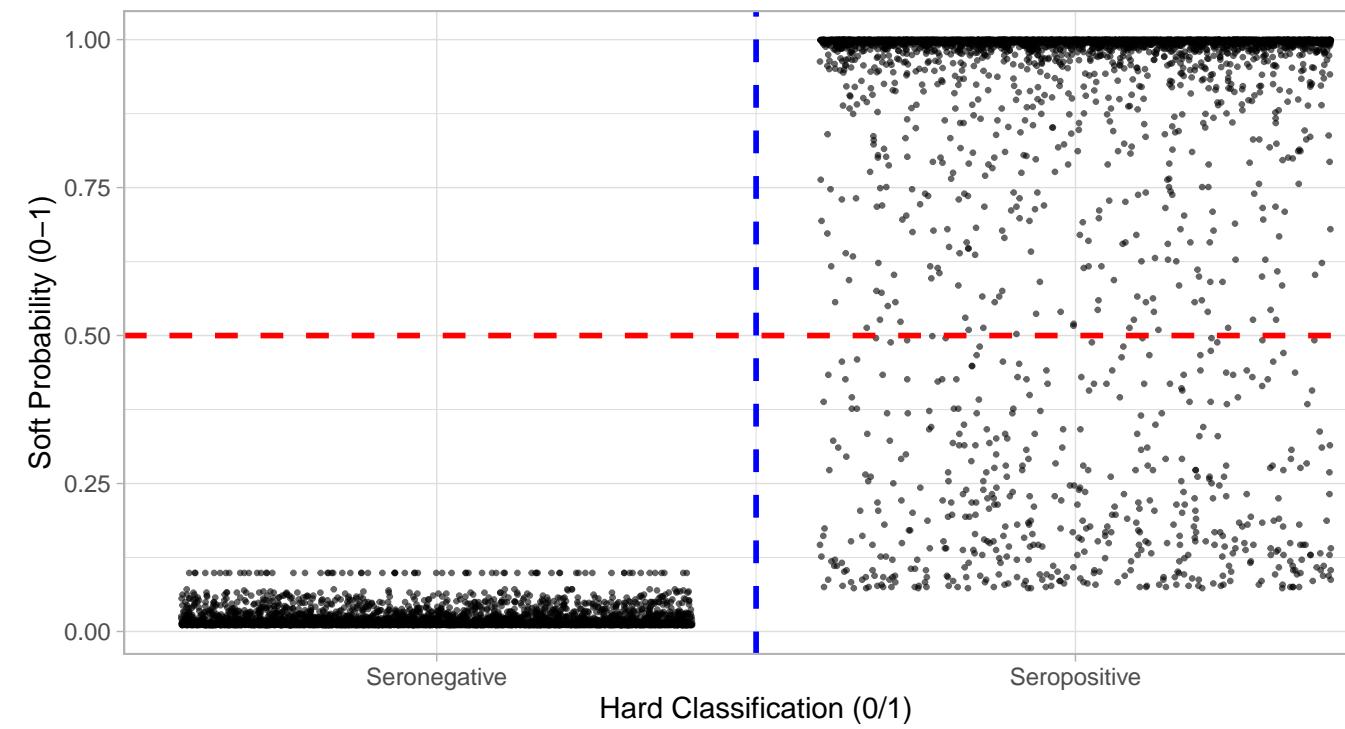
Distribution of Seropositive Probabilities: cmv_pp150

Red line = 50% threshold



Hard vs Soft Classification: cmv_pp150

Red line = 50% soft threshold, Blue line = hard threshold



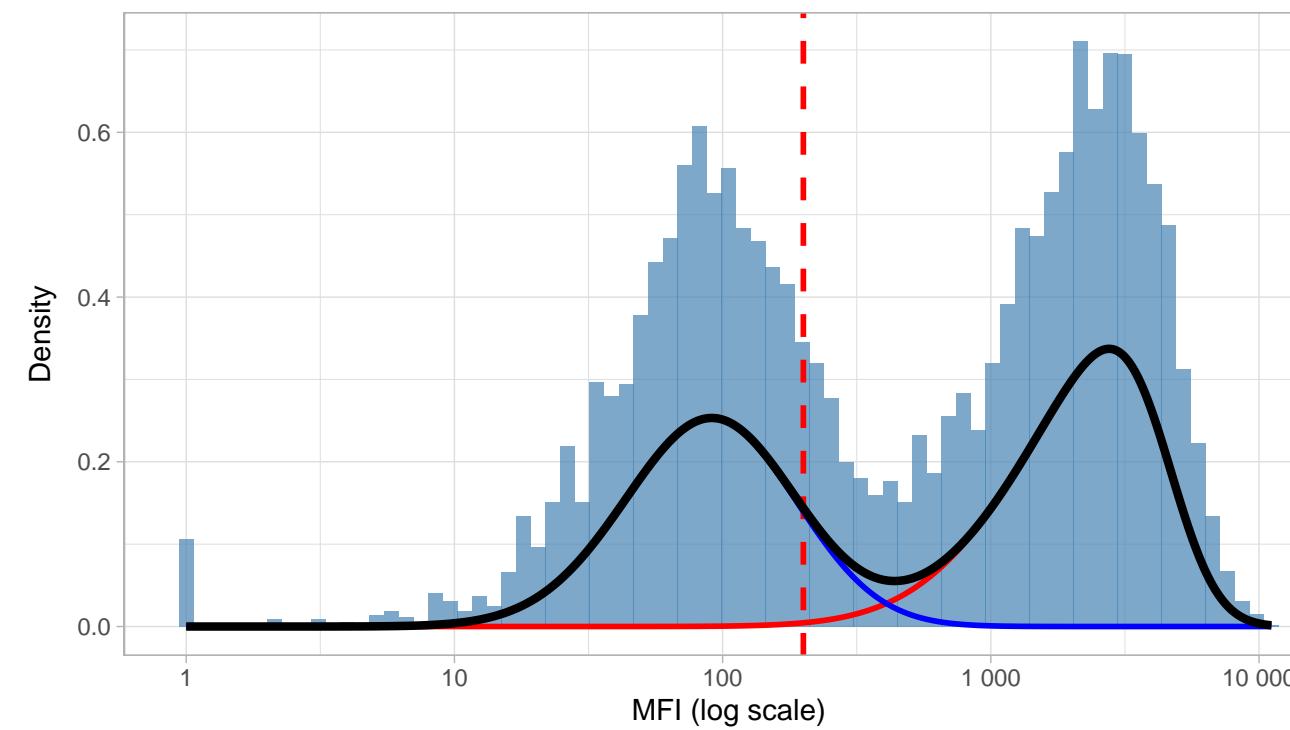
PC1 components not available

Diagnostics: cmv_pp28

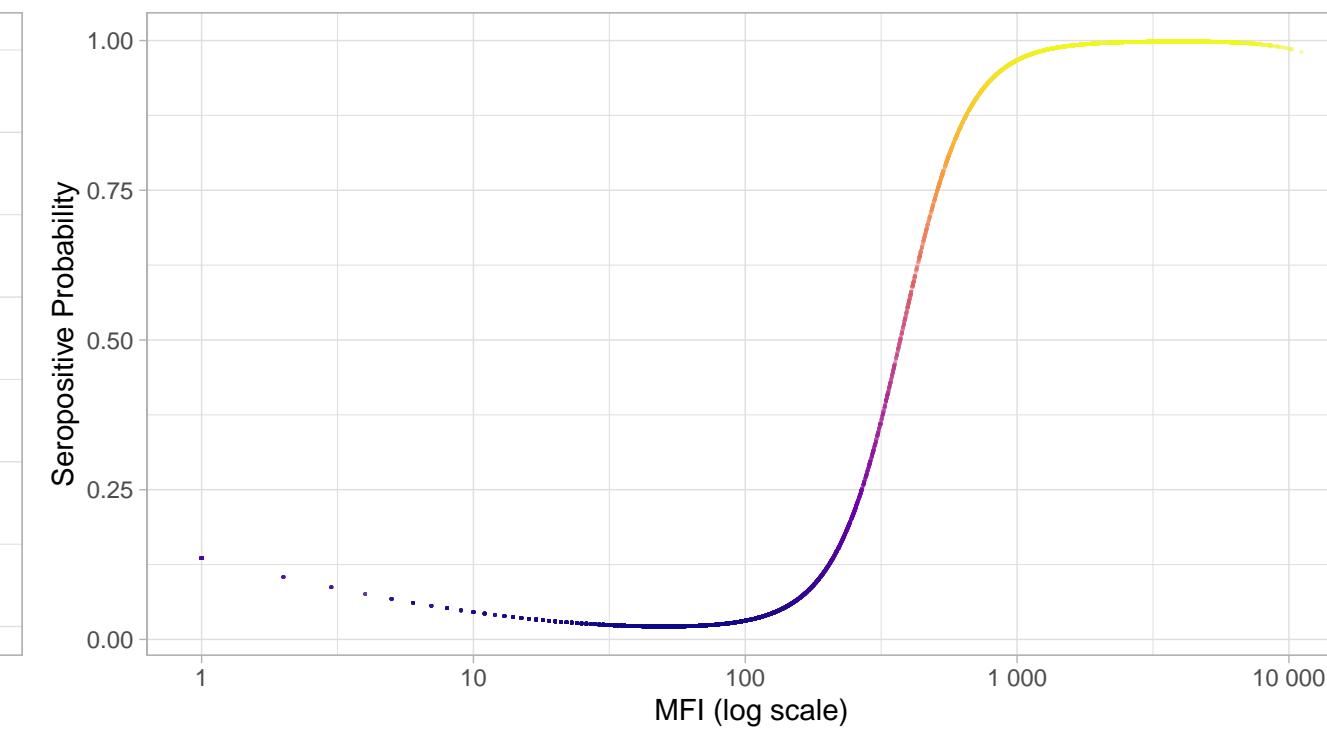
N=9424 | >0.95=4172 | <0.05=3123 | Ambig=2129

Original MFI Distribution: cmv_pp28

Hard cutoff threshold = 200

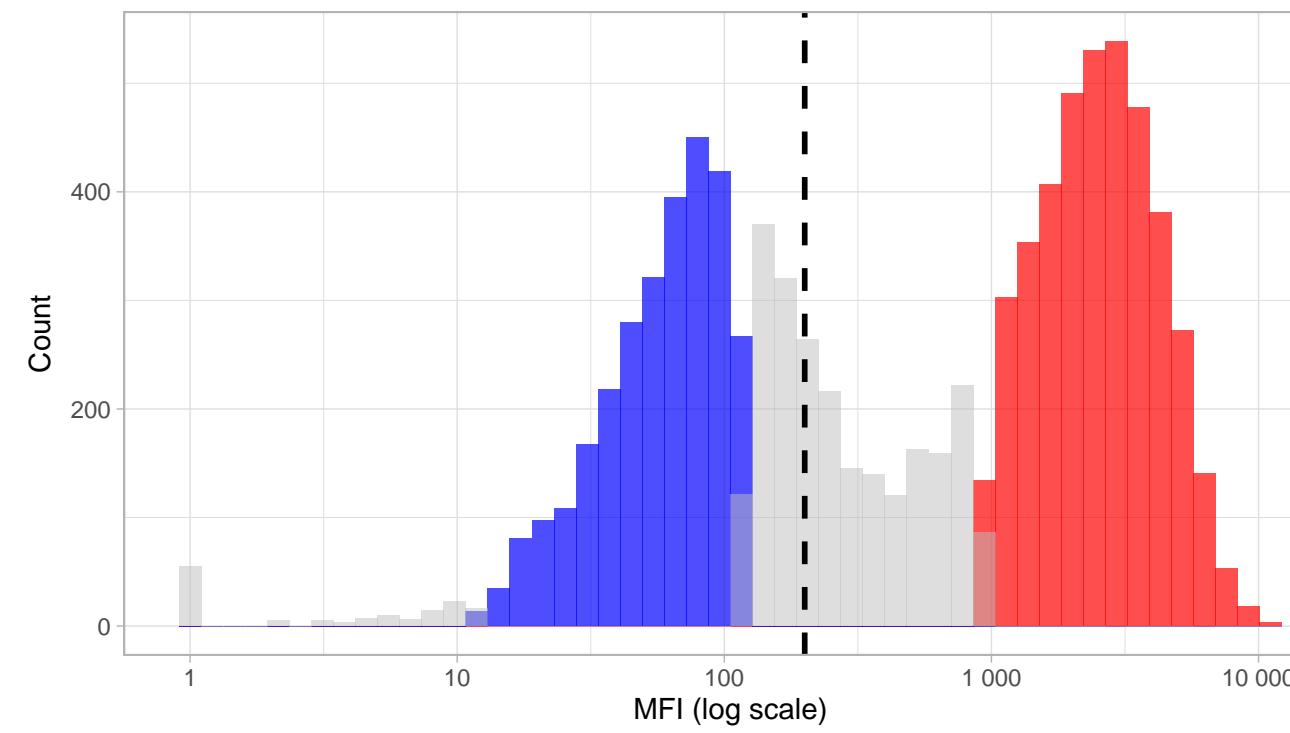


IgG vs Seropositive Probability: cmv_pp28



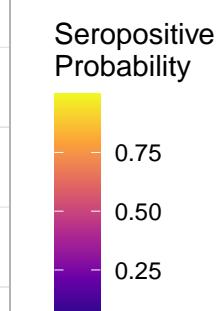
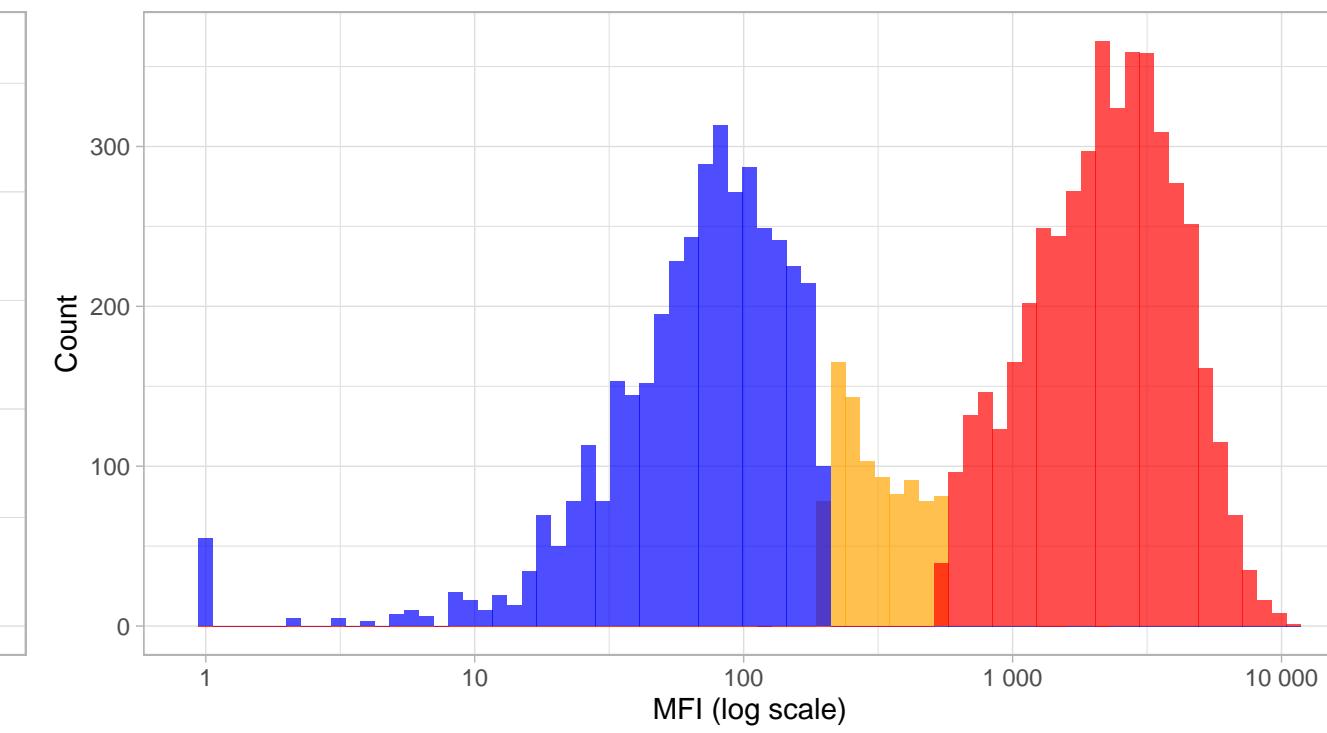
High-Confidence Seropositive Distribution: cmv_pp28

Prob threshold = 0.96

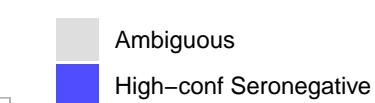


Phenotype Distribution by Classification: cmv_pp28

Comparing hard vs soft classifications

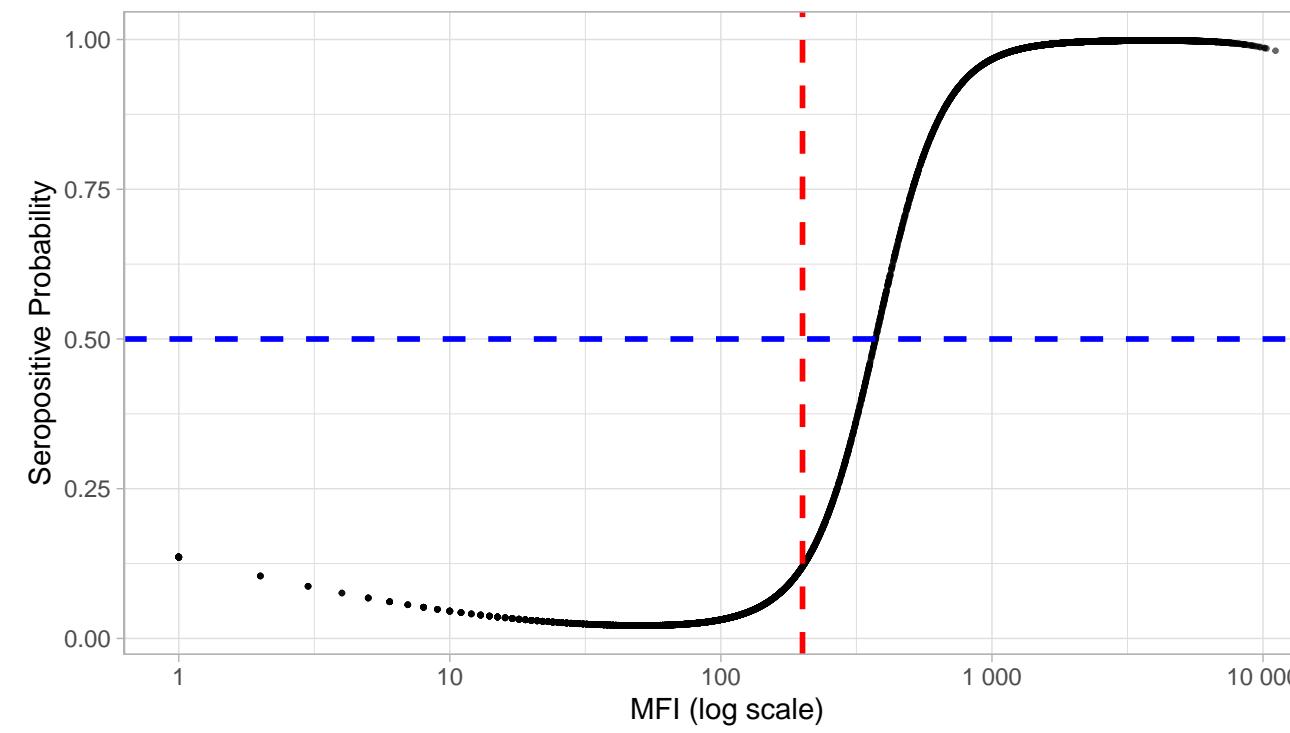


Classification



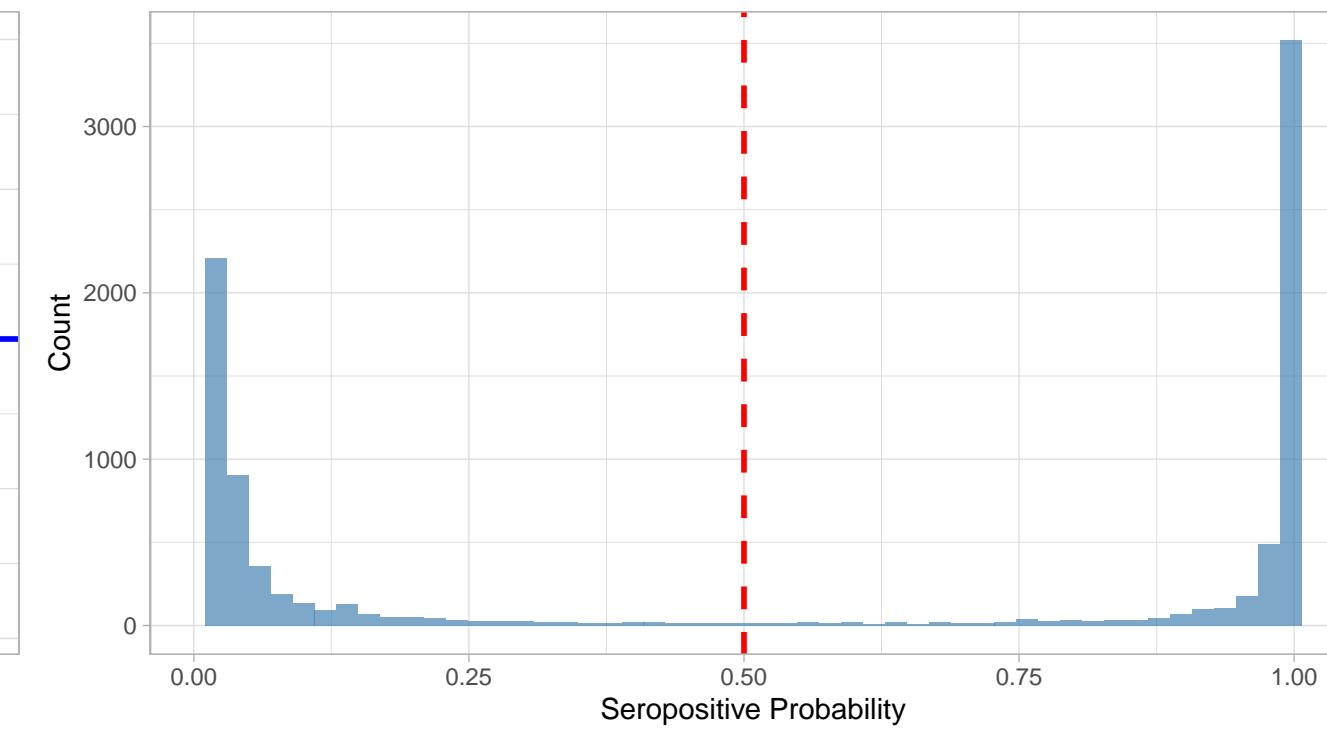
IgG Level vs Seropositive Probability: cmv_pp28

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

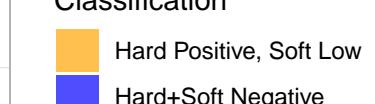


Distribution of Seropositive Probabilities: cmv_pp28

Red line = 50% threshold

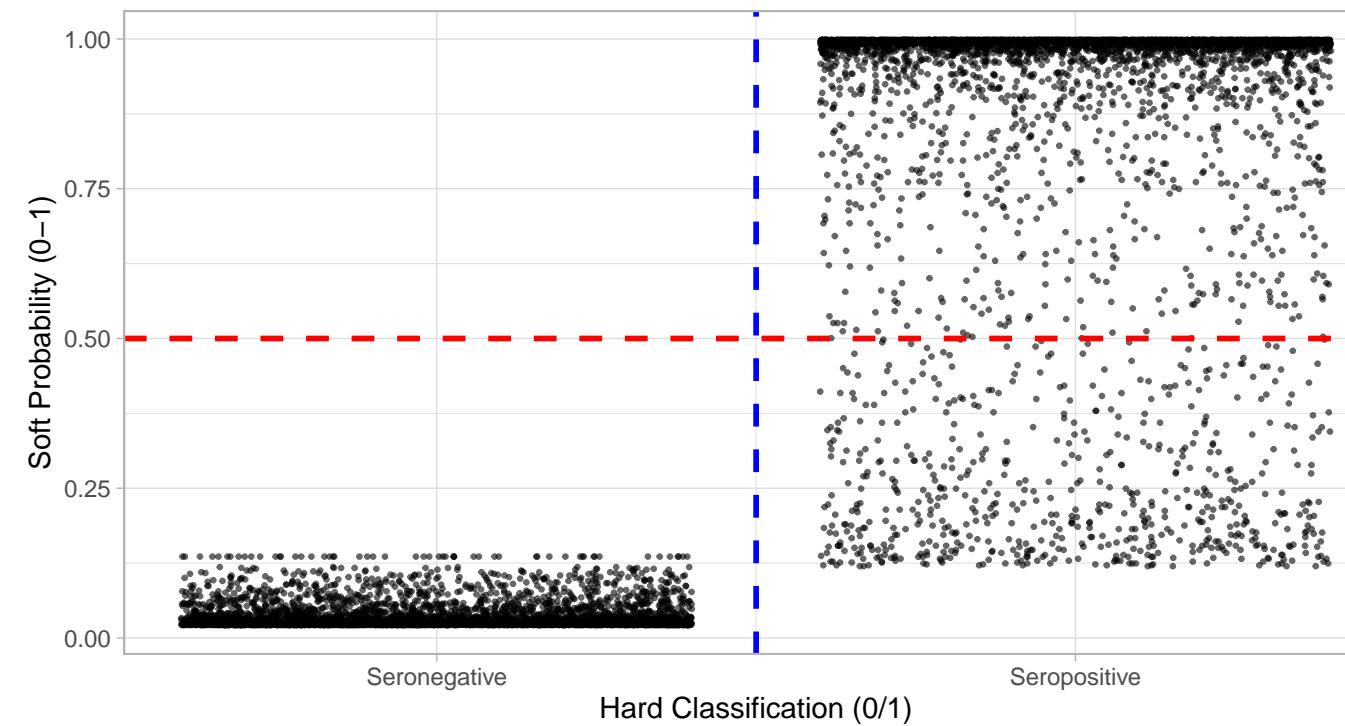


Classification



Hard vs Soft Classification: cmv_pp28

Red line = 50% soft threshold, Blue line = hard threshold



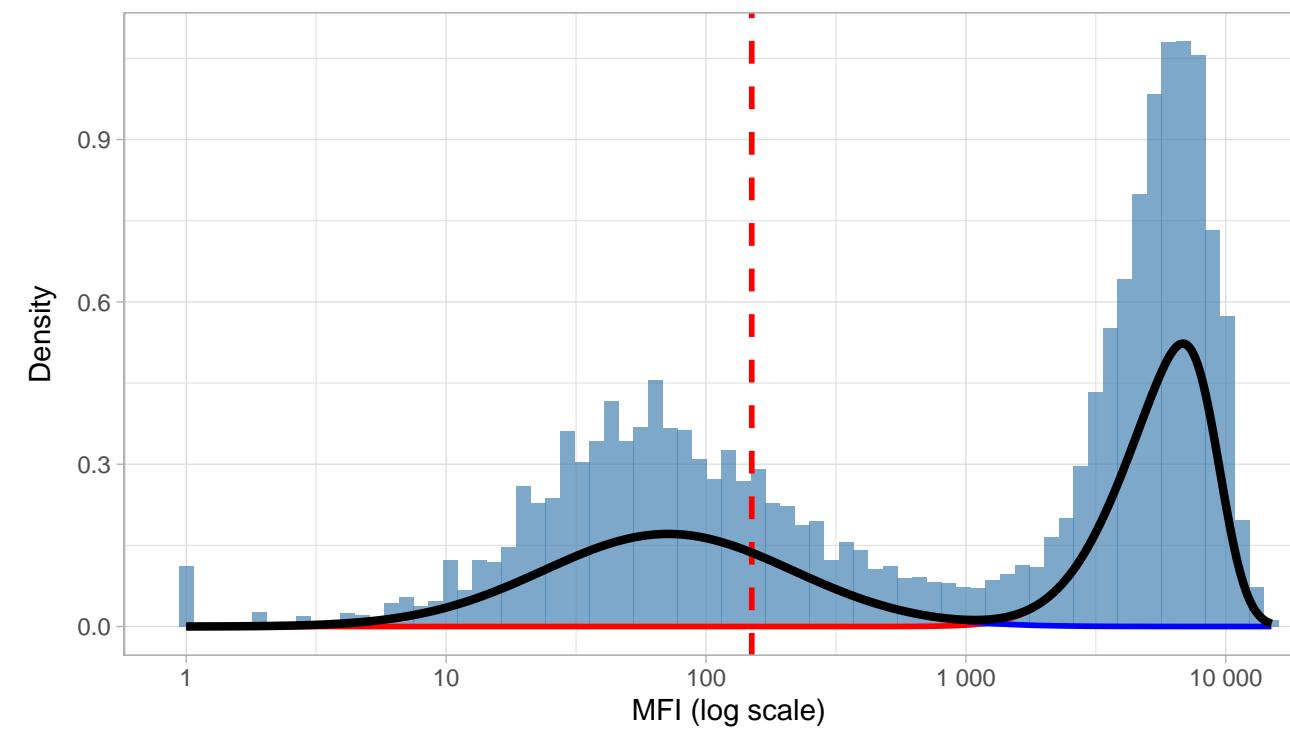
PC1 components not available

Diagnostics: cmv_pp52

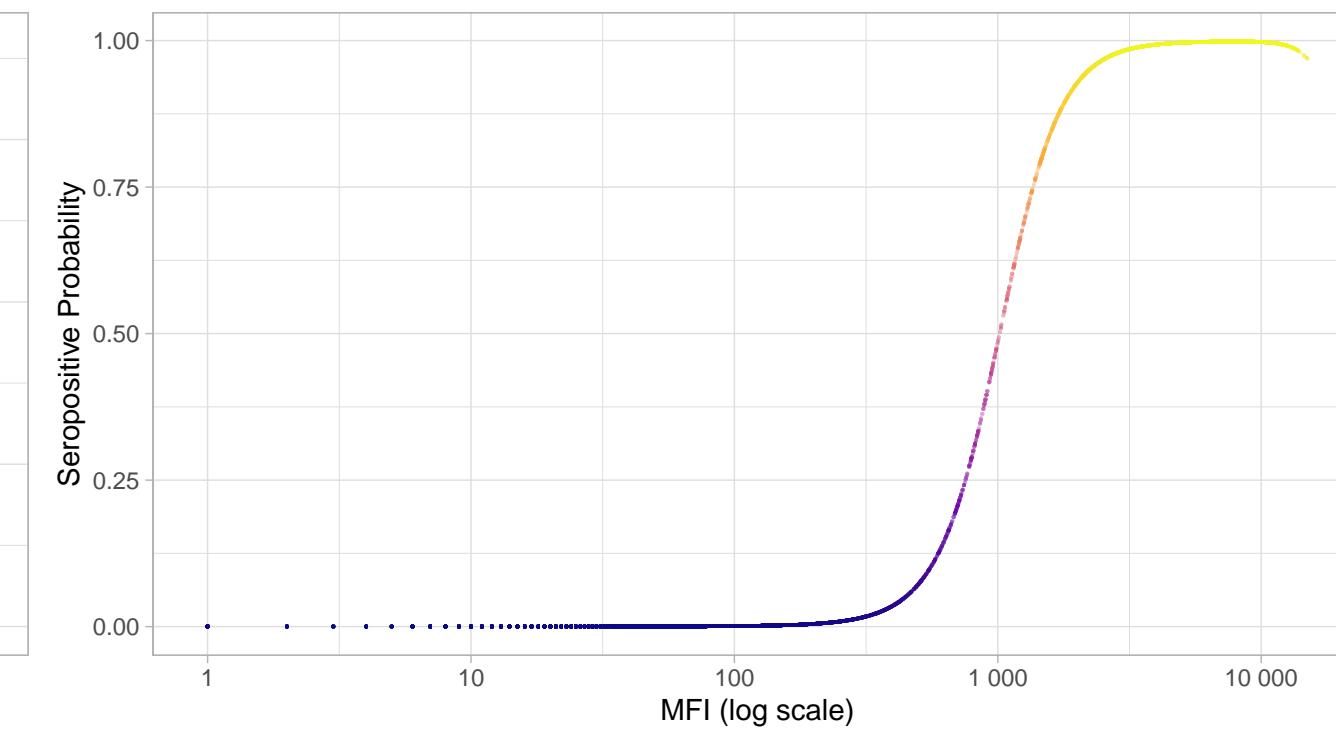
N=9424 | >0.95=4647 | <0.05=4141 | Ambig=636

Original MFI Distribution: cmv_pp52

Hard cutoff threshold = 150

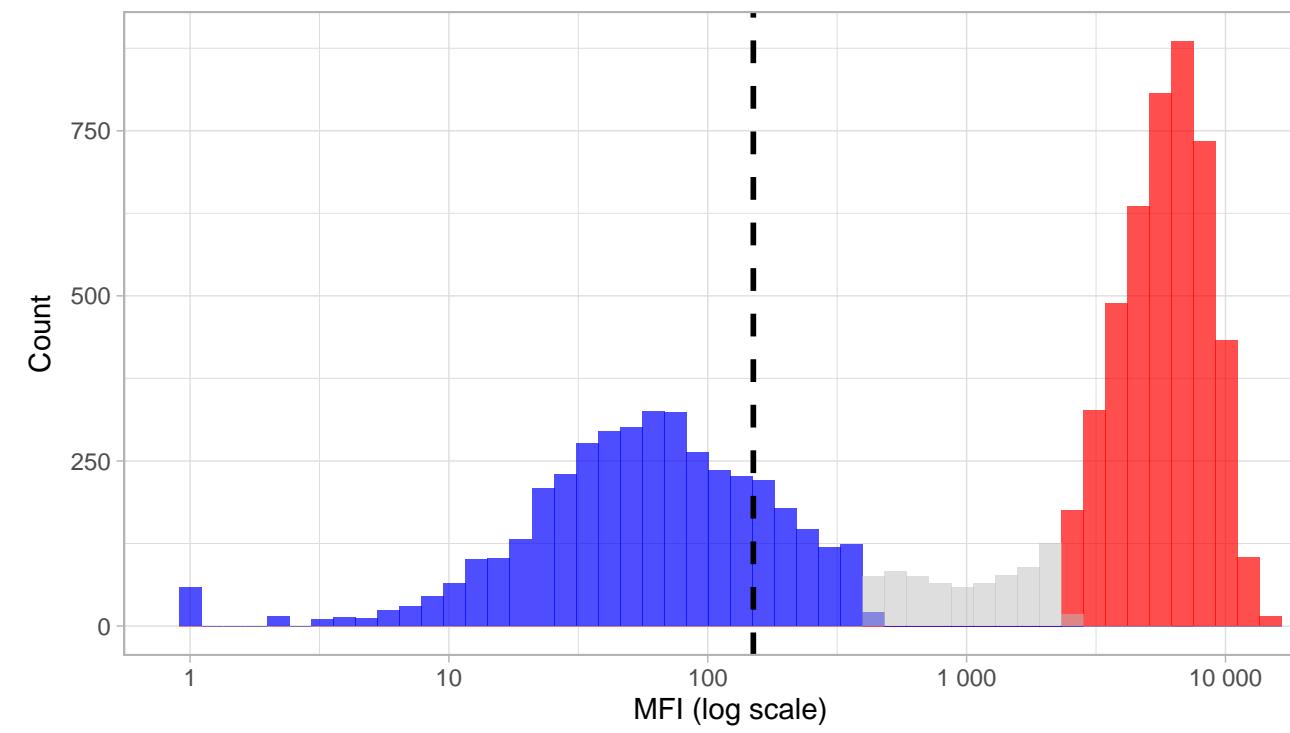


IgG vs Seropositive Probability: cmv_pp52



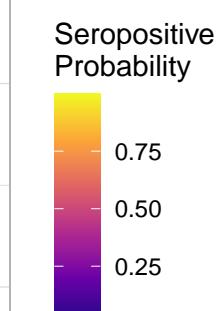
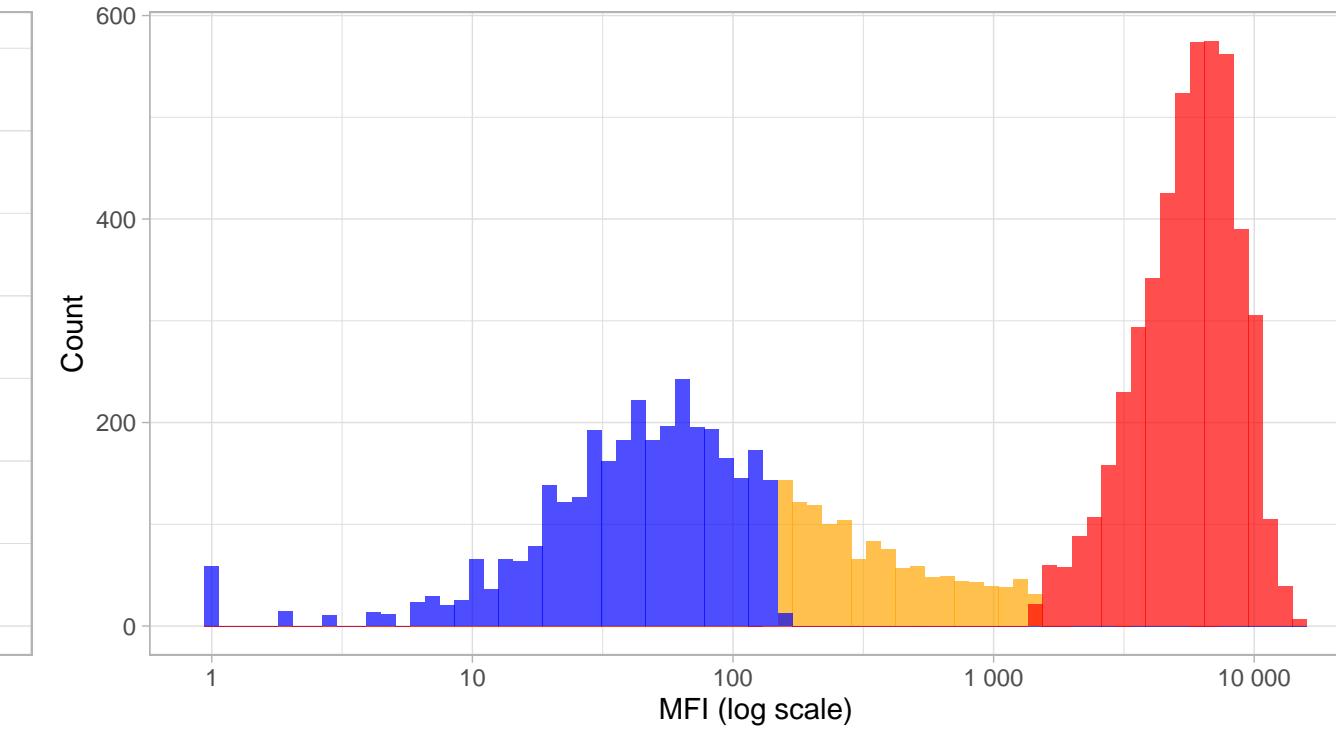
High-Confidence Seropositive Distribution: cmv_pp52

Prob threshold = 0.96

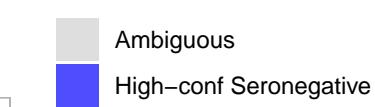


Phenotype Distribution by Classification: cmv_pp52

Comparing hard vs soft classifications



Classification

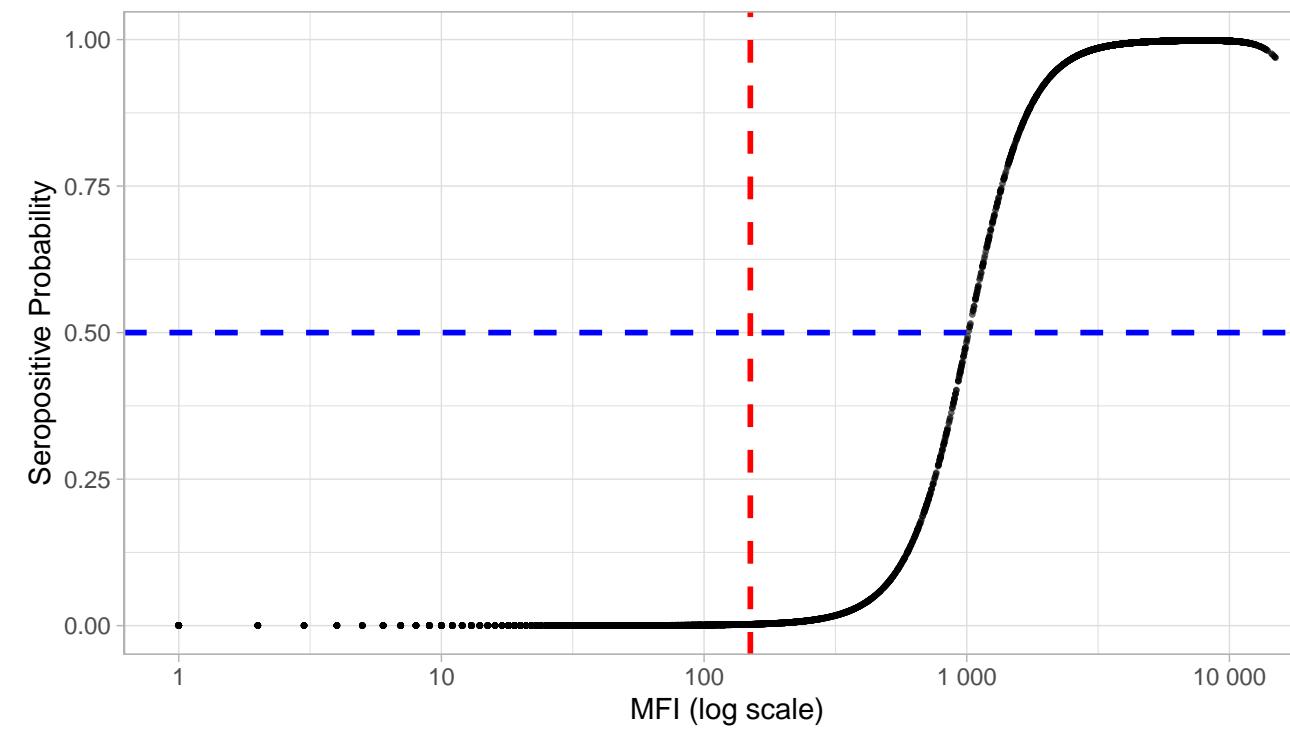


Classification



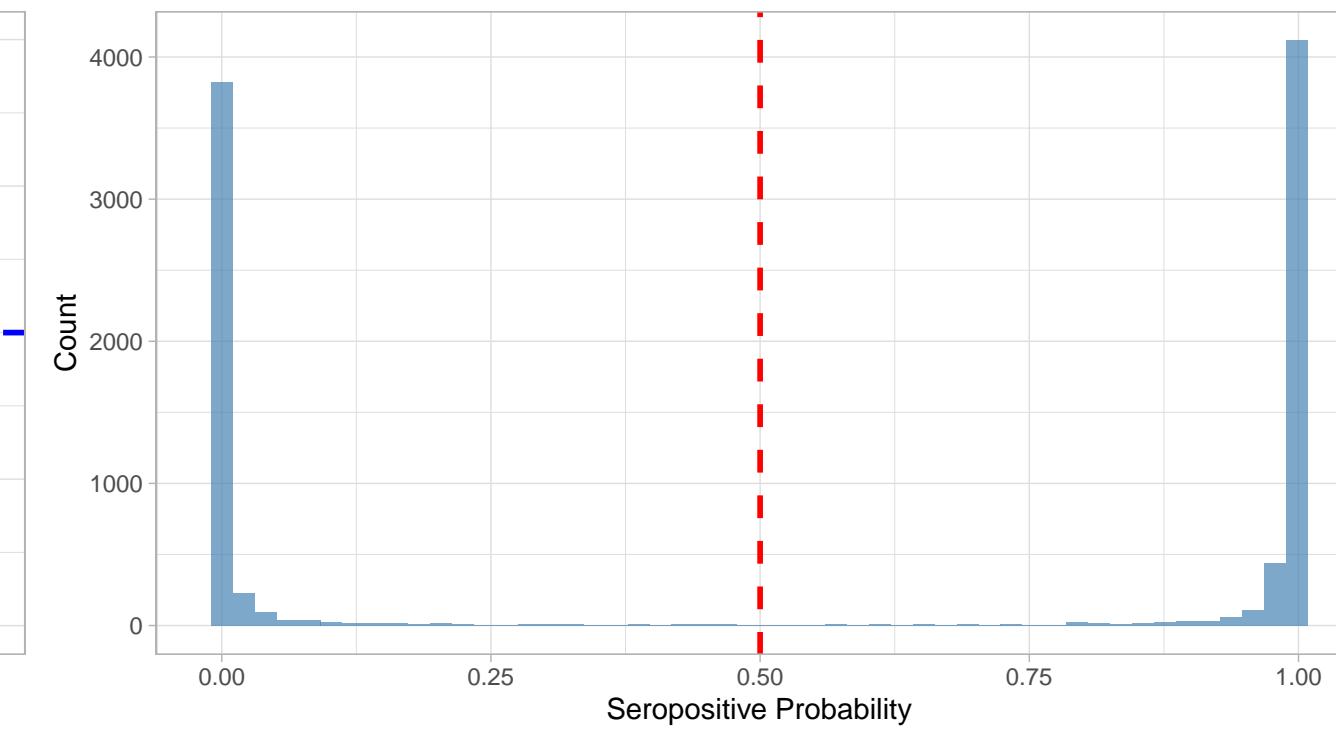
IgG Level vs Seropositive Probability: cmv_pp52

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



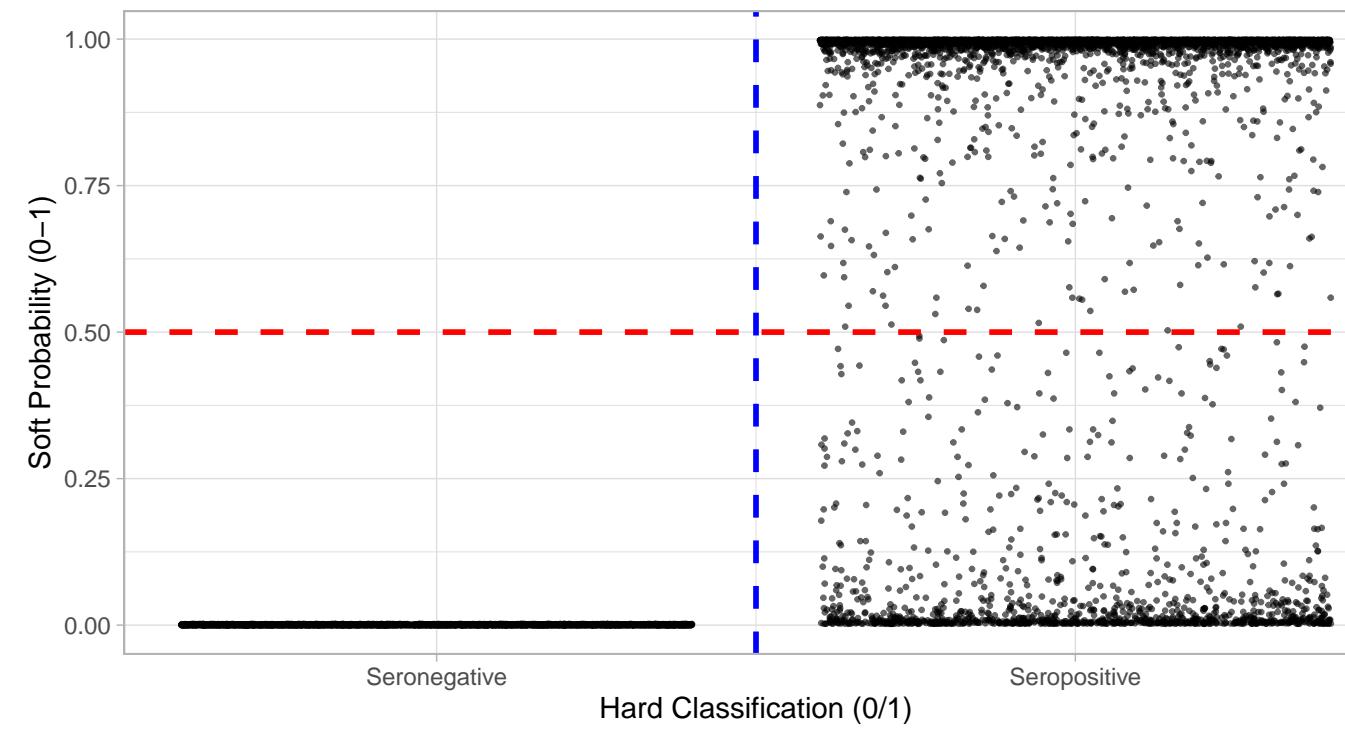
Distribution of Seropositive Probabilities: cmv_pp52

Red line = 50% threshold



Hard vs Soft Classification: cmv_pp52

Red line = 50% soft threshold, Blue line = hard threshold



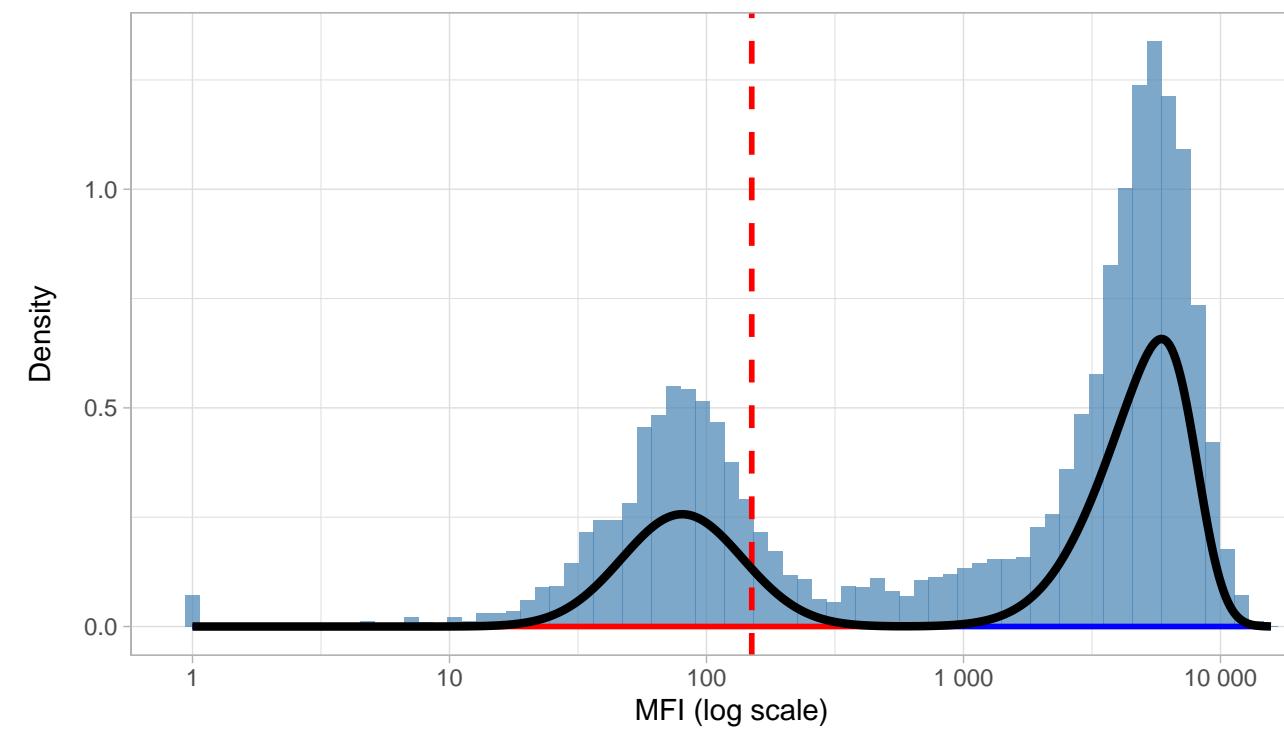
PC1 components not available

Diagnostics: hsv1

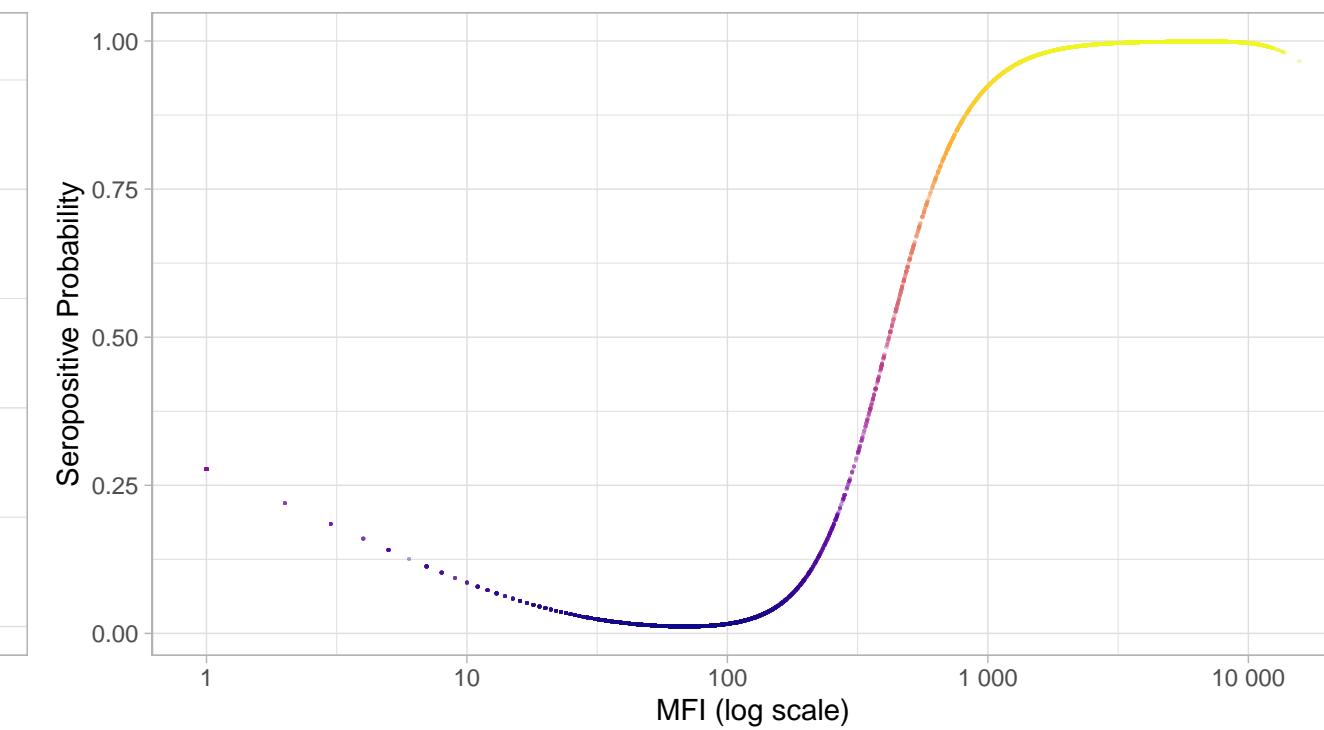
N=9424 | >0.95=5650 | <0.05=2755 | Ambig=1019

Original MFI Distribution: hsv1

Hard cutoff threshold = 150

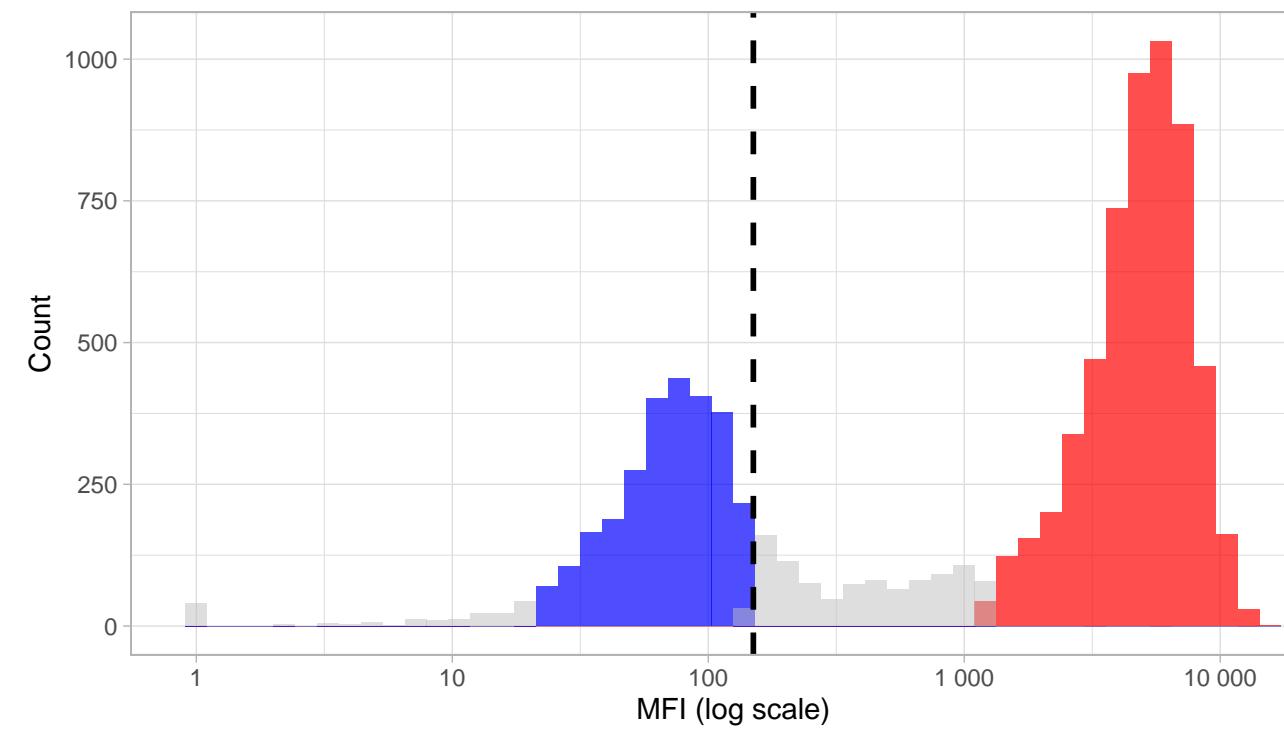


IgG vs Seropositive Probability: hsv1



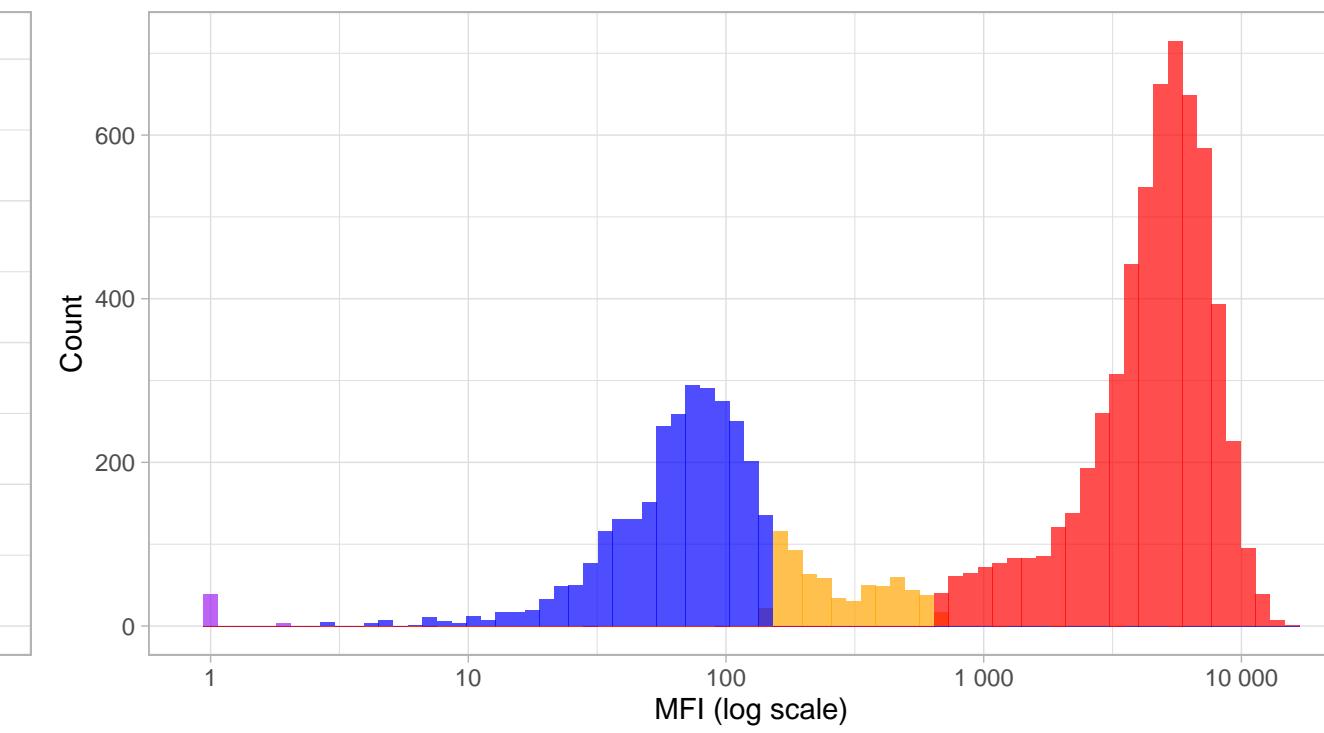
High-Confidence Seropositive Distribution: hsv1

Prob threshold = 0.96



Phenotype Distribution by Classification: hsv1

Comparing hard vs soft classifications



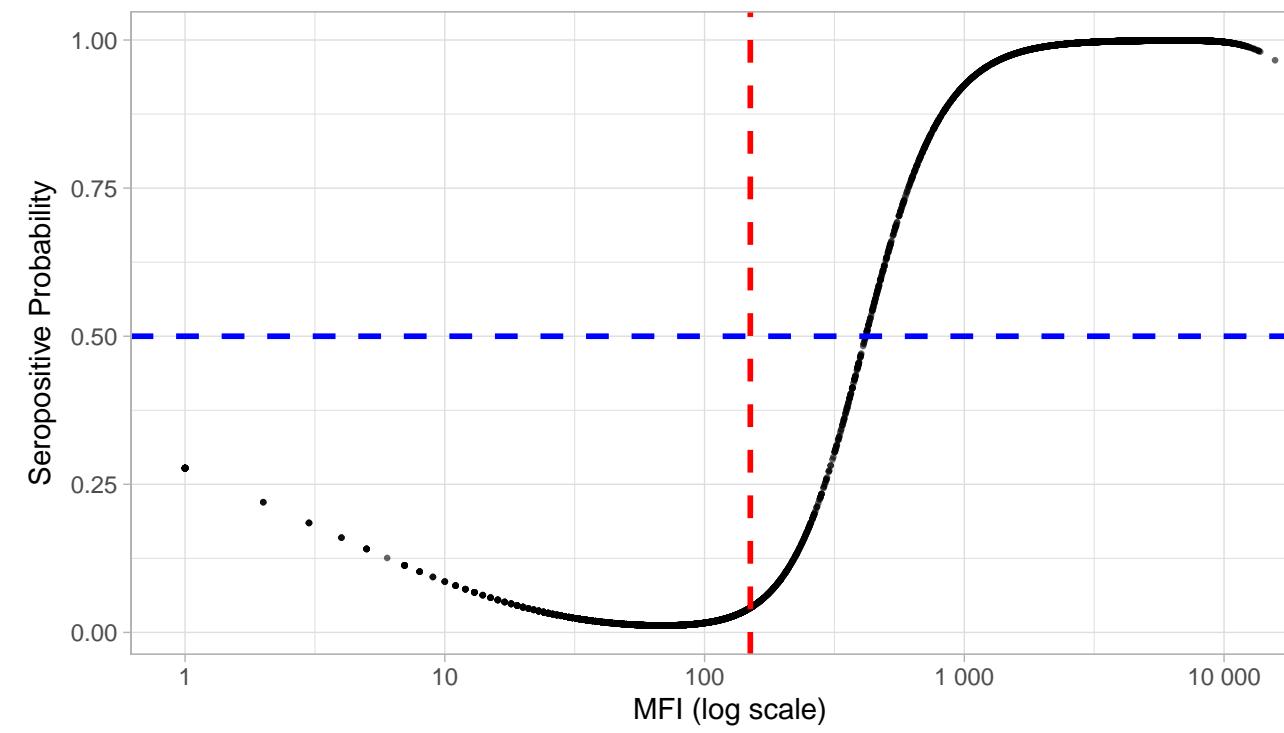
Seropositive Probability
0.75
0.50
0.25

Classification

Ambiguous
High-conf Seronegative
High-conf Seropositive

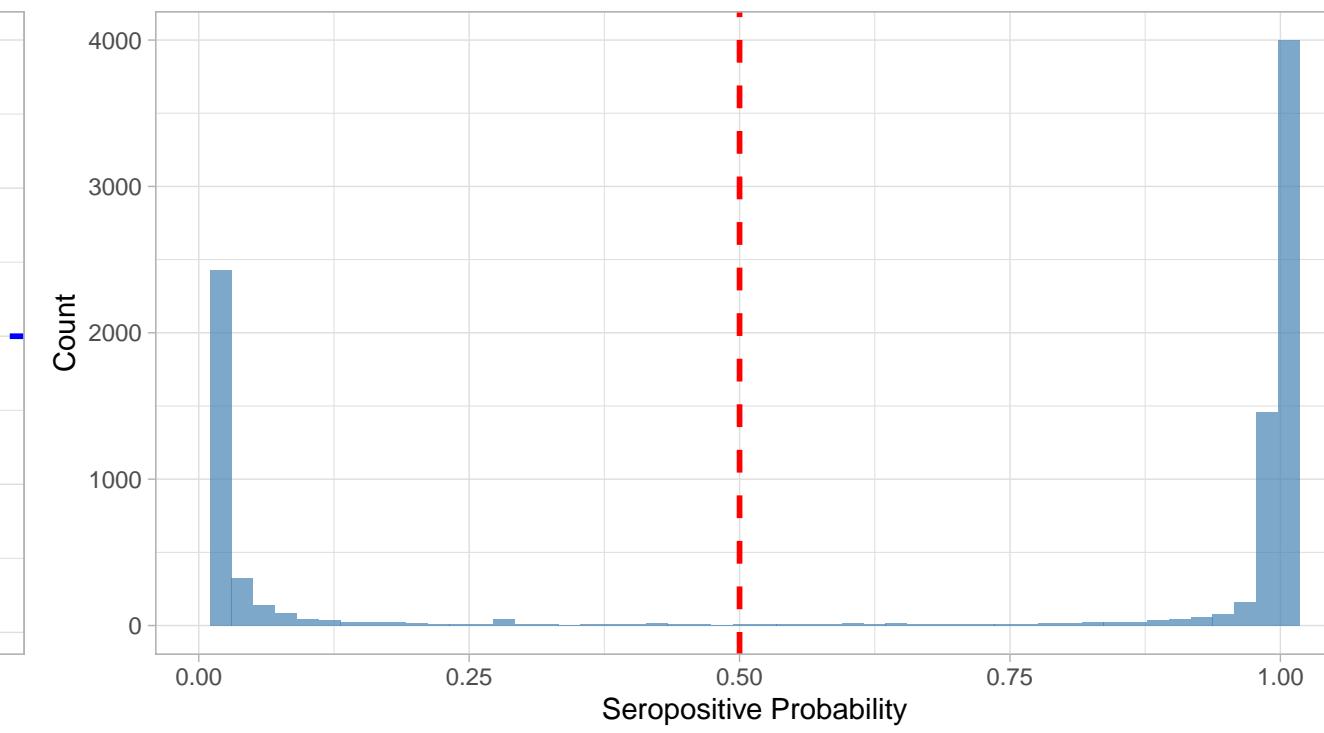
IgG Level vs Seropositive Probability: hsv1

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



Distribution of Seropositive Probabilities: hsv1

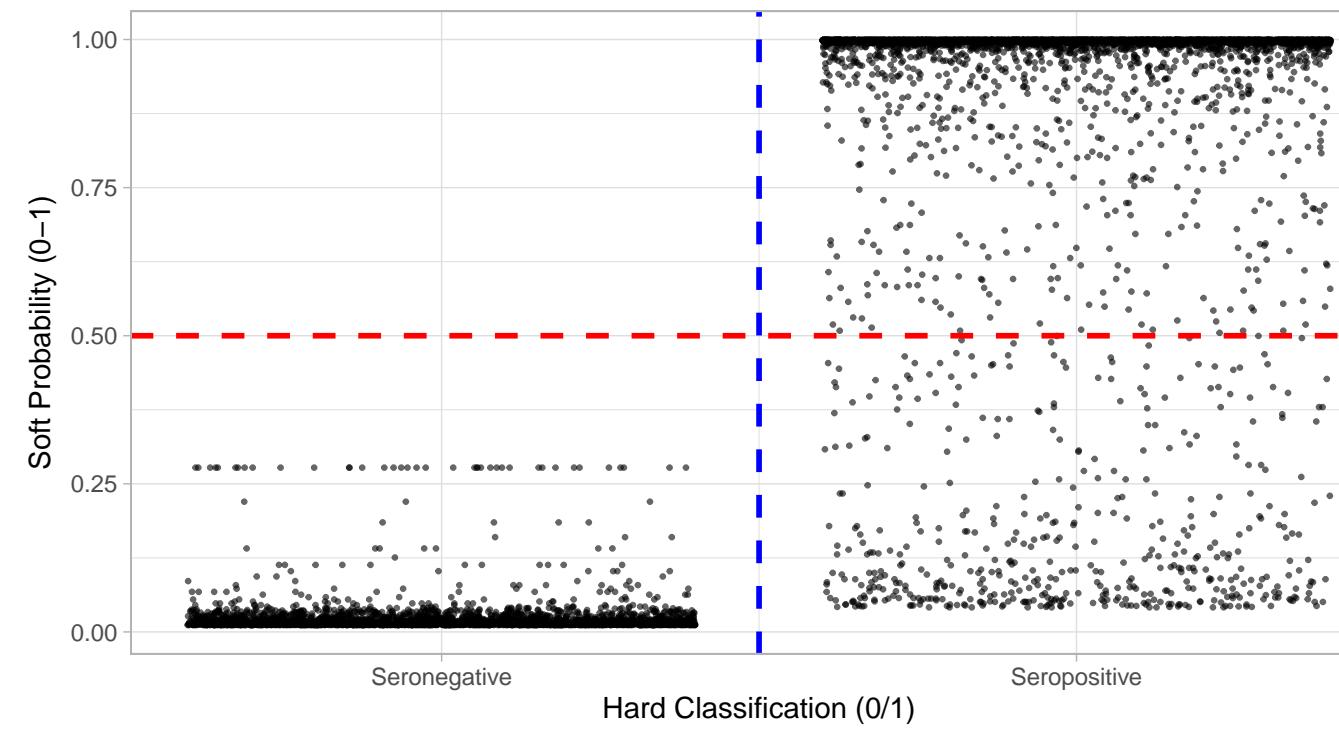
Red line = 50% threshold



Classification
Hard Negative, Soft High
Hard Positive, Soft Low
Hard+Soft Negative
Hard+Soft Positive

Hard vs Soft Classification: hsv1

Red line = 50% soft threshold, Blue line = hard threshold



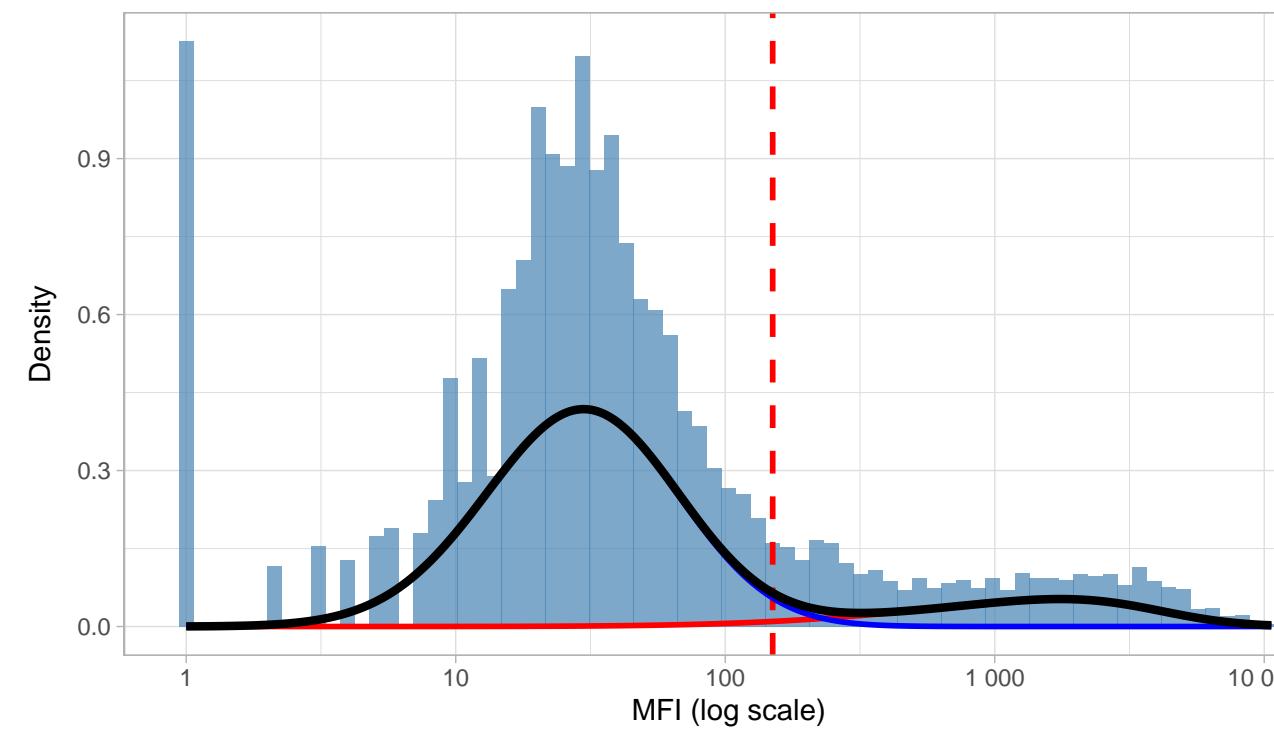
PC1 components not available

Diagnostics: hsv2

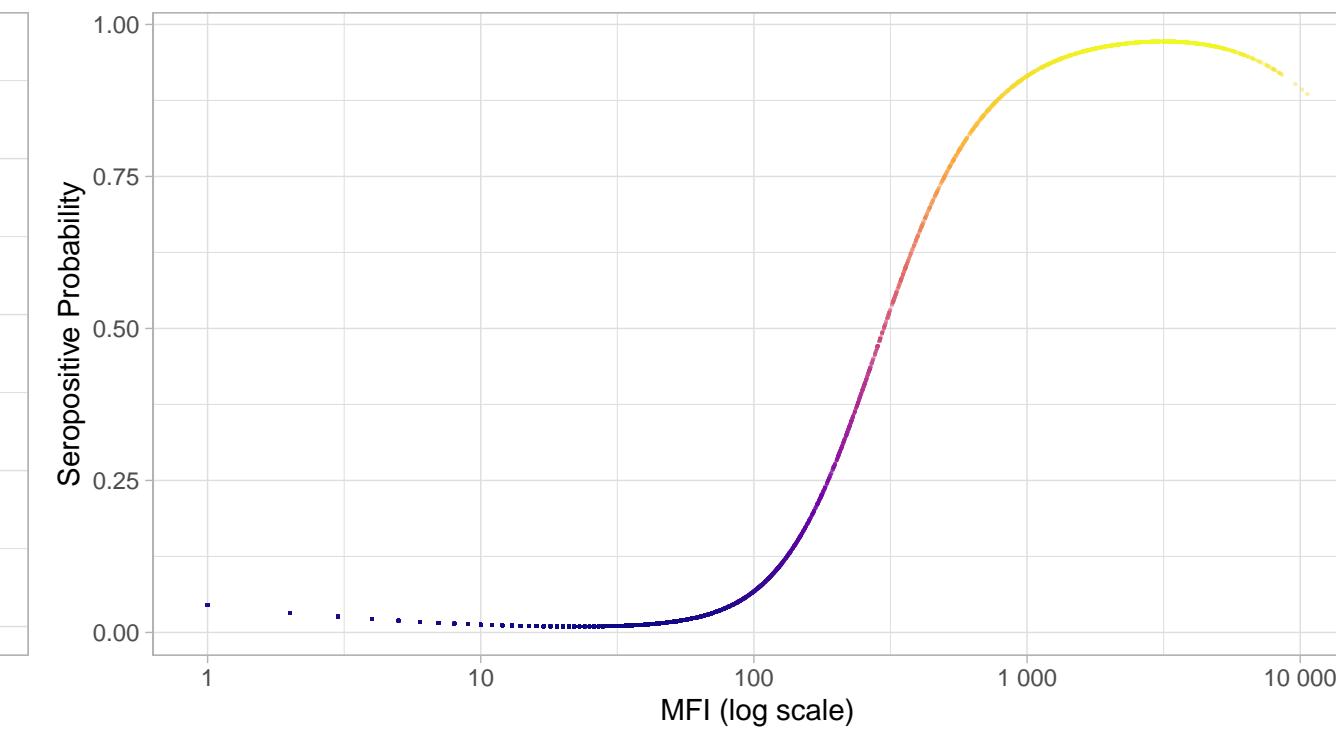
N=9424 | >0.95=503 | <0.05=7361 | Ambig=1560

Original MFI Distribution: hsv2

Hard cutoff threshold = 150

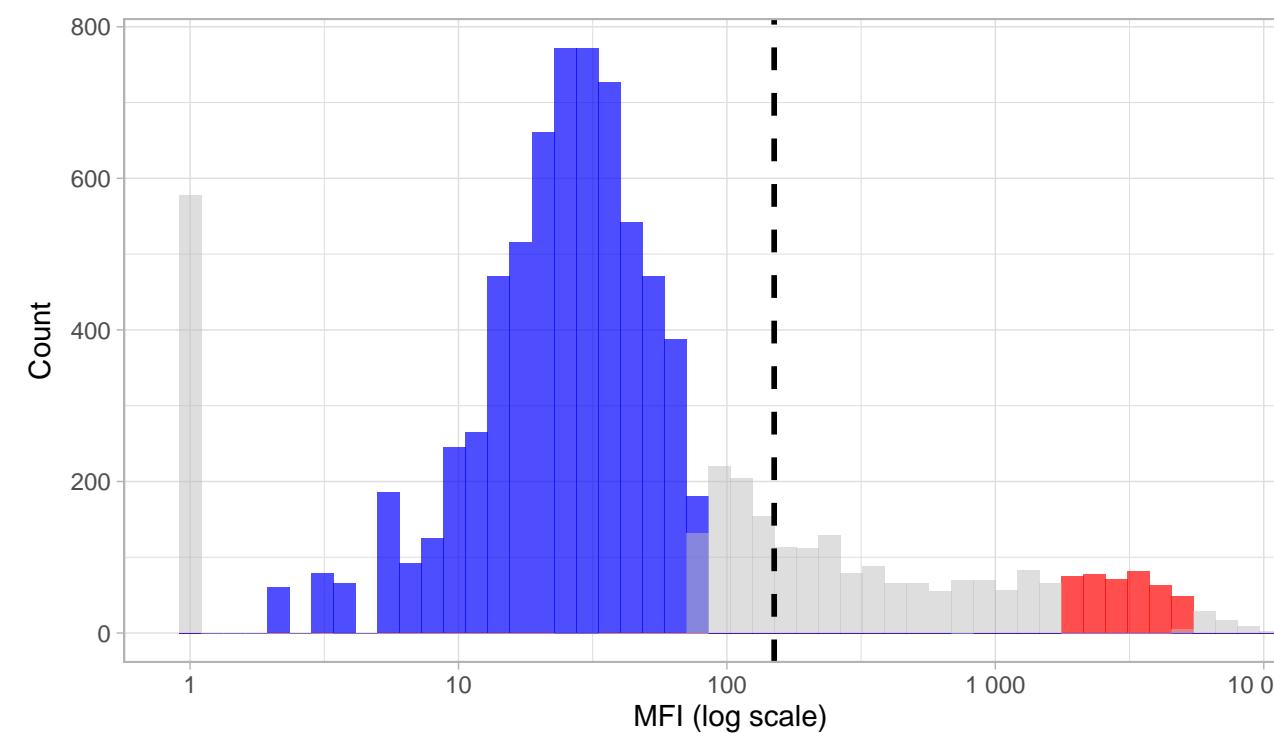


IgG vs Seropositive Probability: hsv2



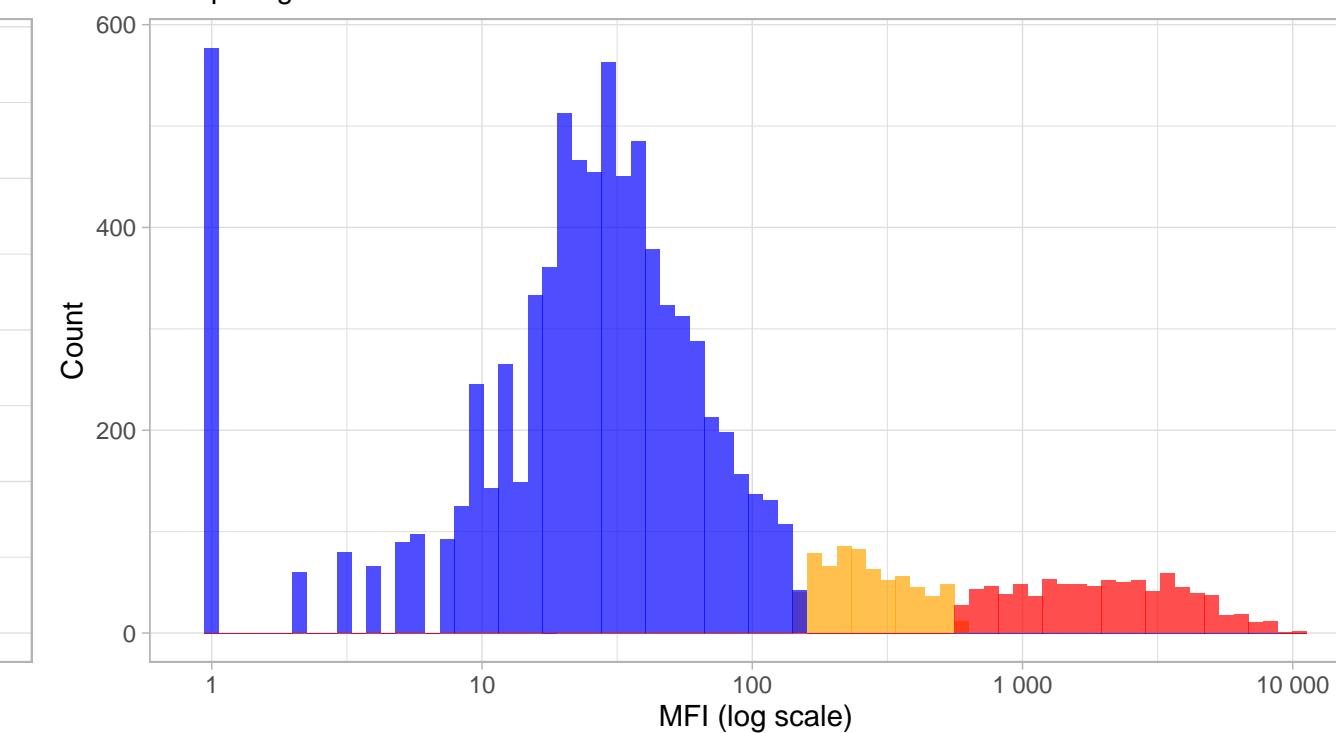
High-Confidence Seropositive Distribution: hsv2

Prob threshold = 0.96



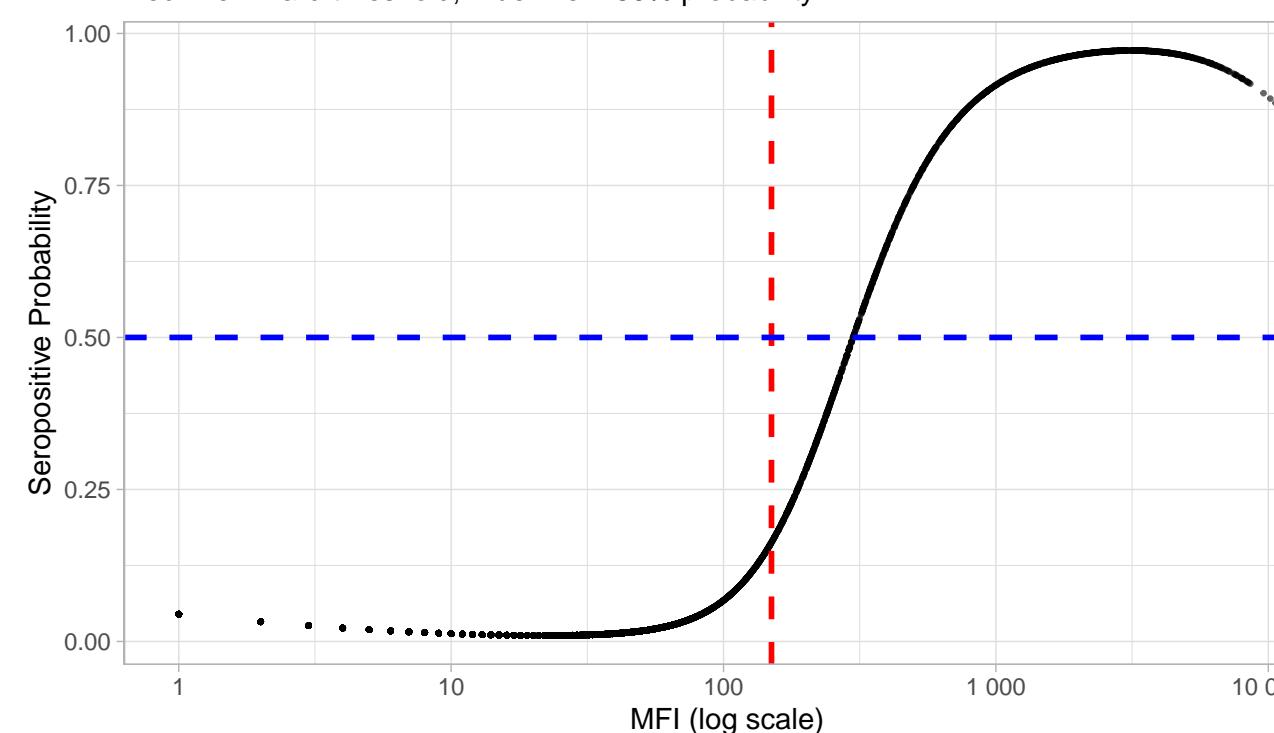
Phenotype Distribution by Classification: hsv2

Comparing hard vs soft classifications



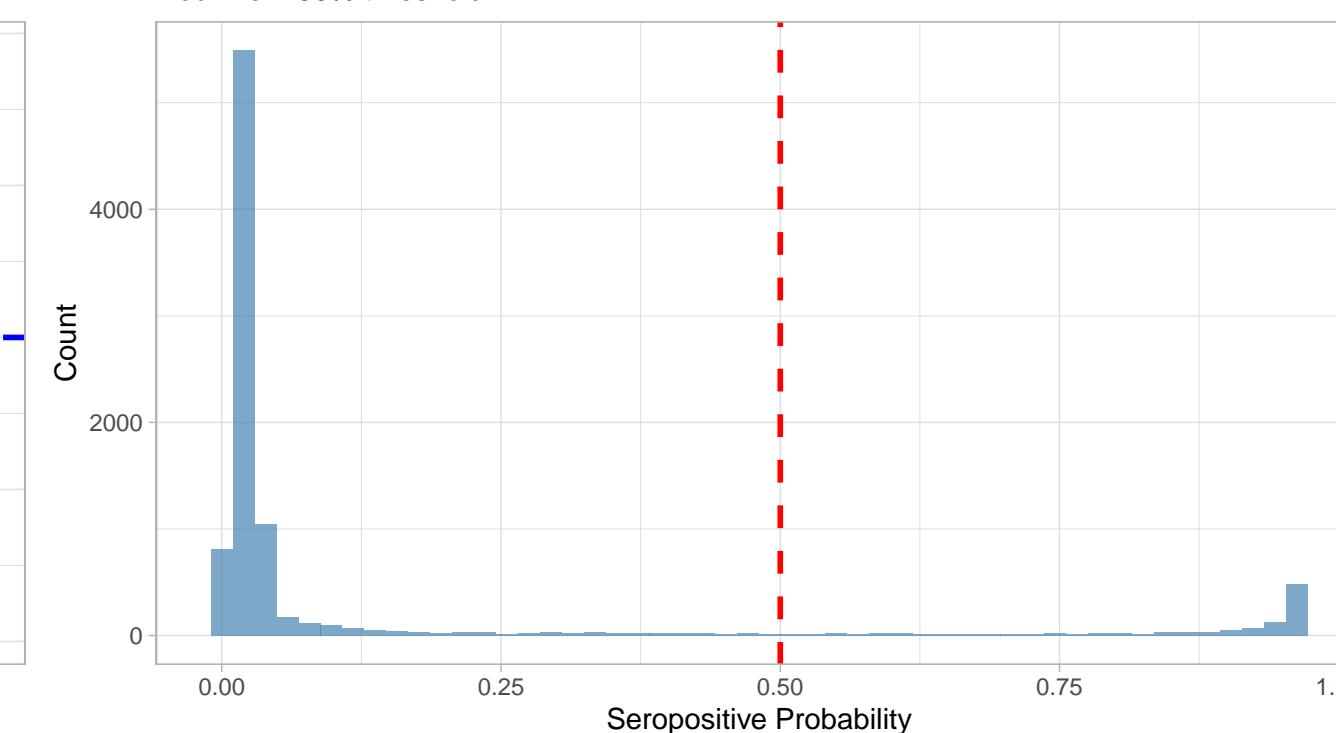
IgG Level vs Seropositive Probability: hsv2

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



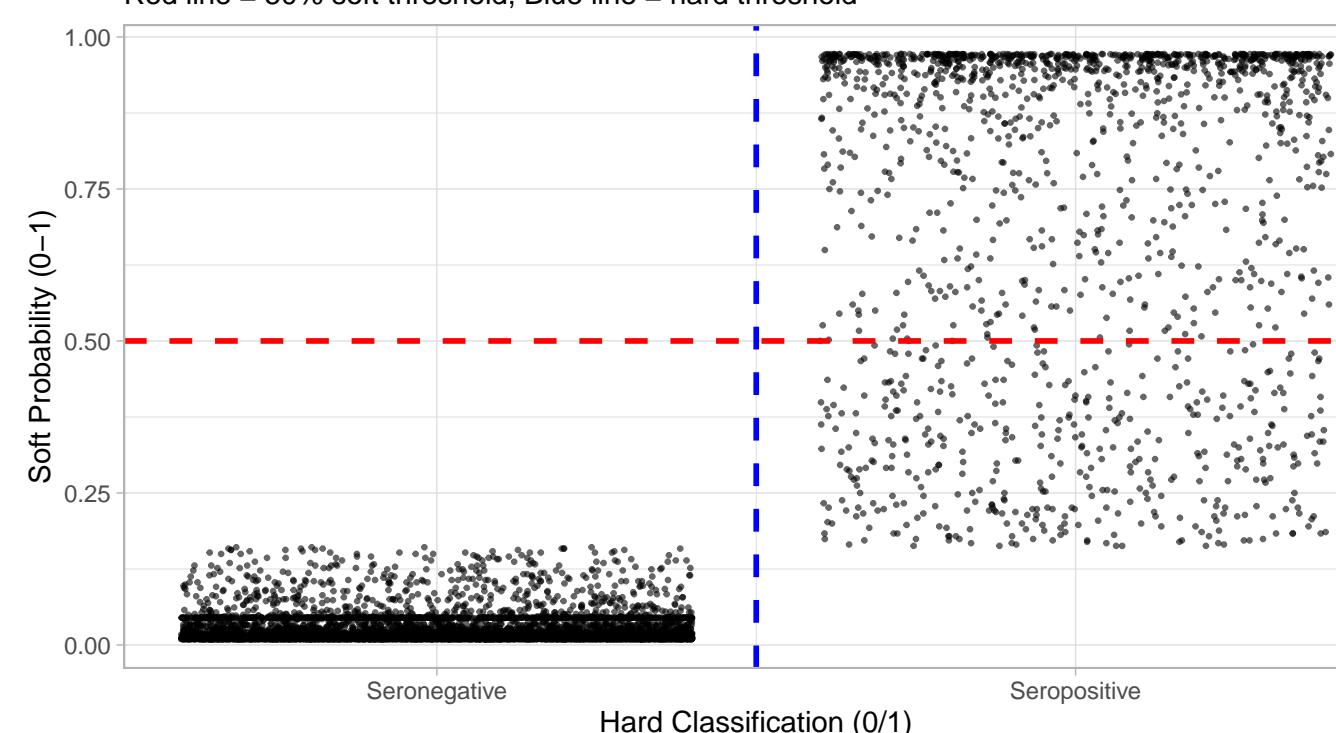
Distribution of Seropositive Probabilities: hsv2

Red line = 50% threshold



Hard vs Soft Classification: hsv2

Red line = 50% soft threshold, Blue line = hard threshold



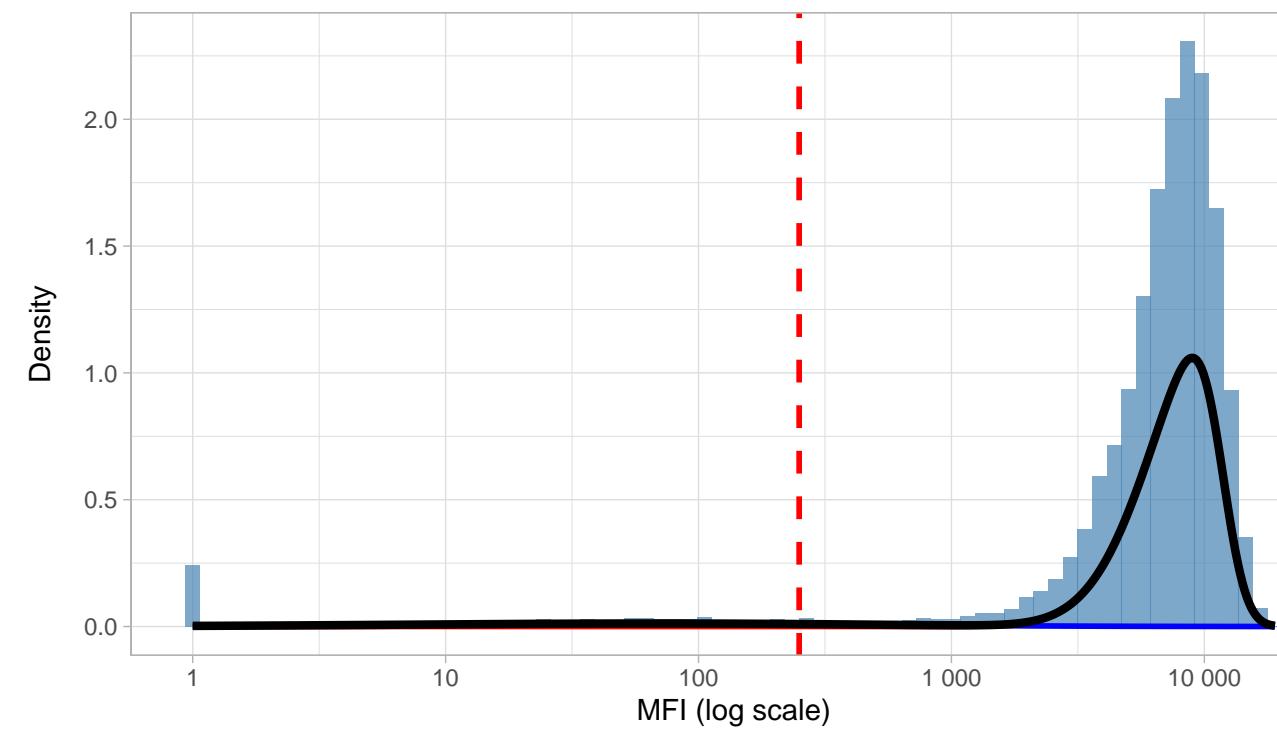
PC1 components not available

Diagnostics: ebv_vca

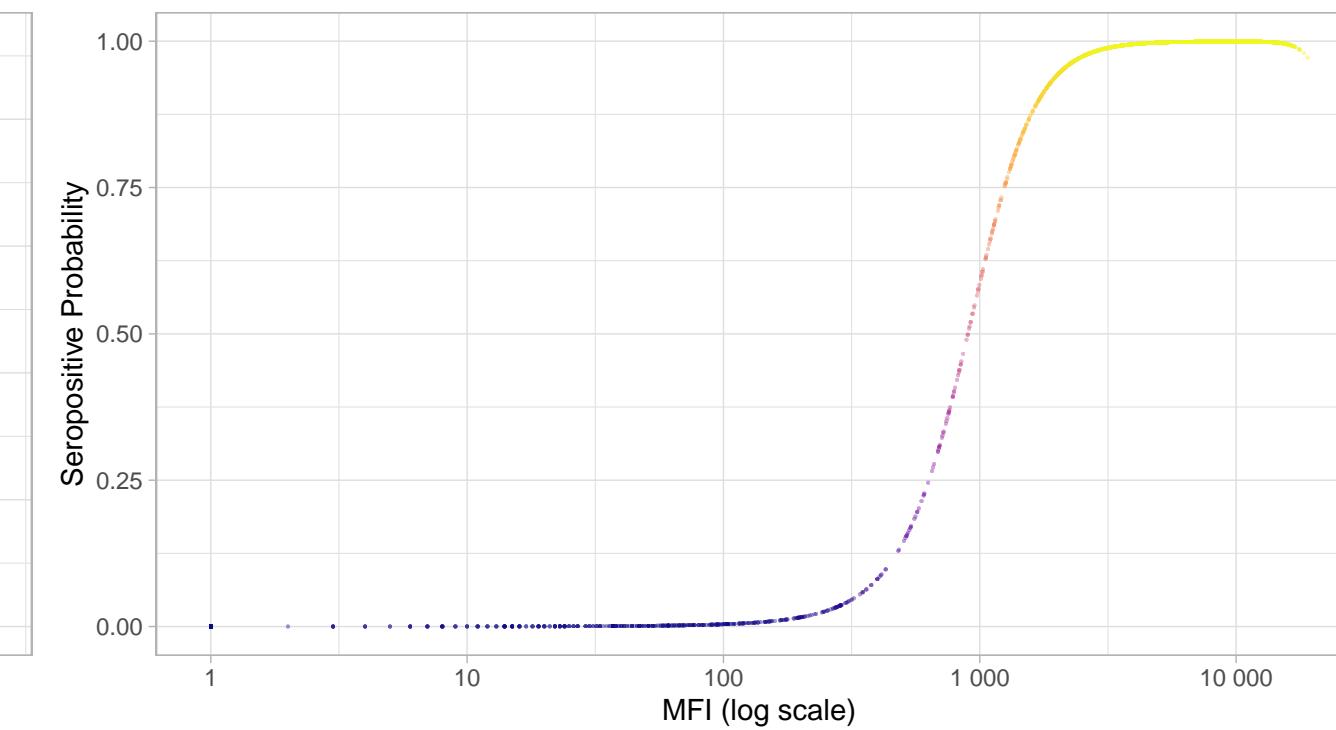
N=9424 | >0.95=8642 | <0.05=502 | Ambig=280

Original MFI Distribution: ebv_vca

Hard cutoff threshold = 250

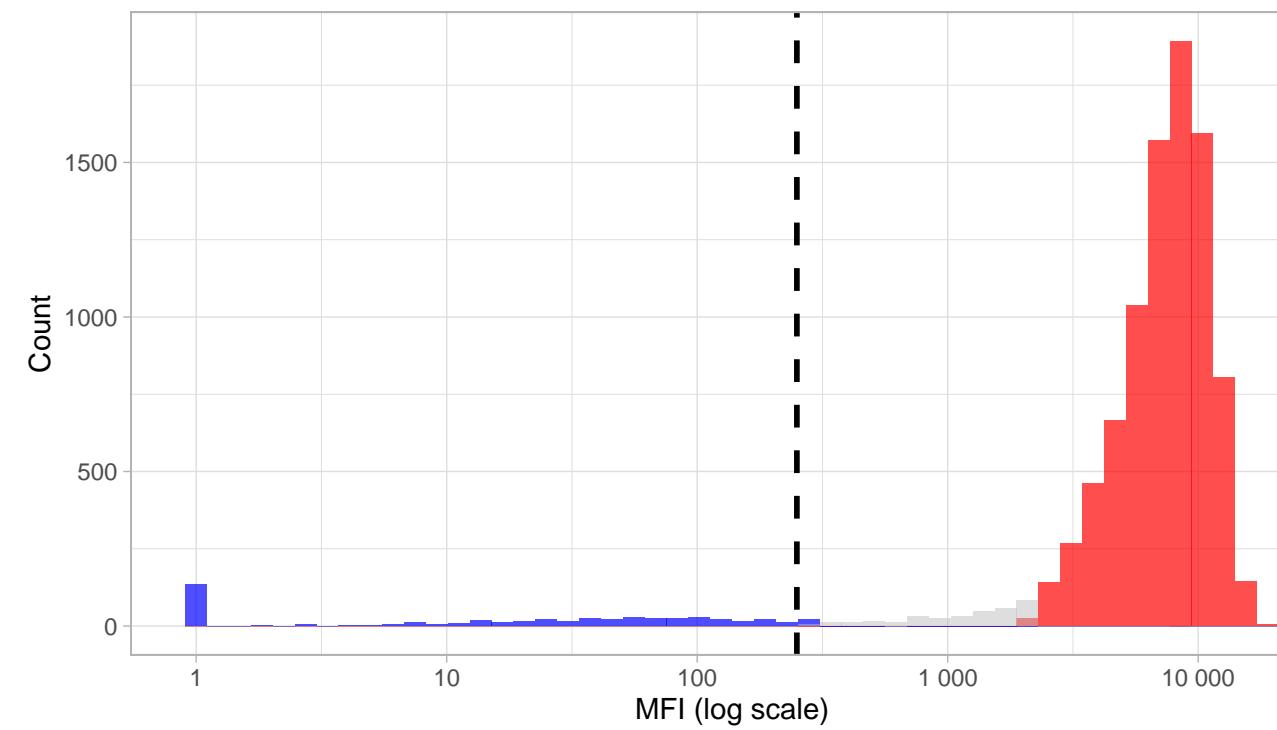


IgG vs Seropositive Probability: ebv_vca



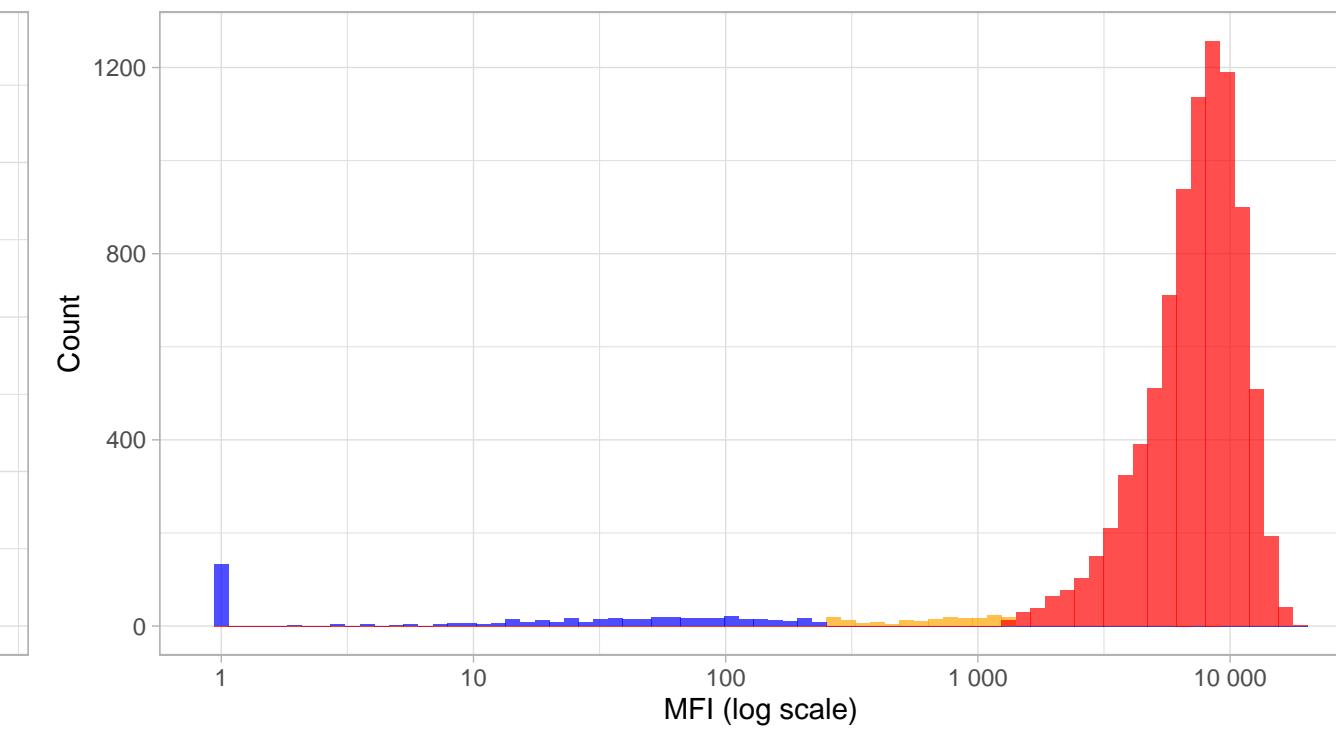
High-Confidence Seropositive Distribution: ebv_vca

Prob threshold = 0.96

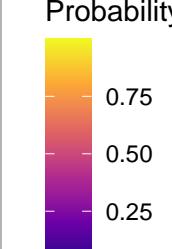


Phenotype Distribution by Classification: ebv_vca

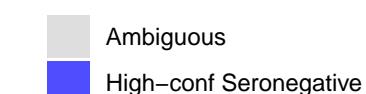
Comparing hard vs soft classifications



Seropositive Probability

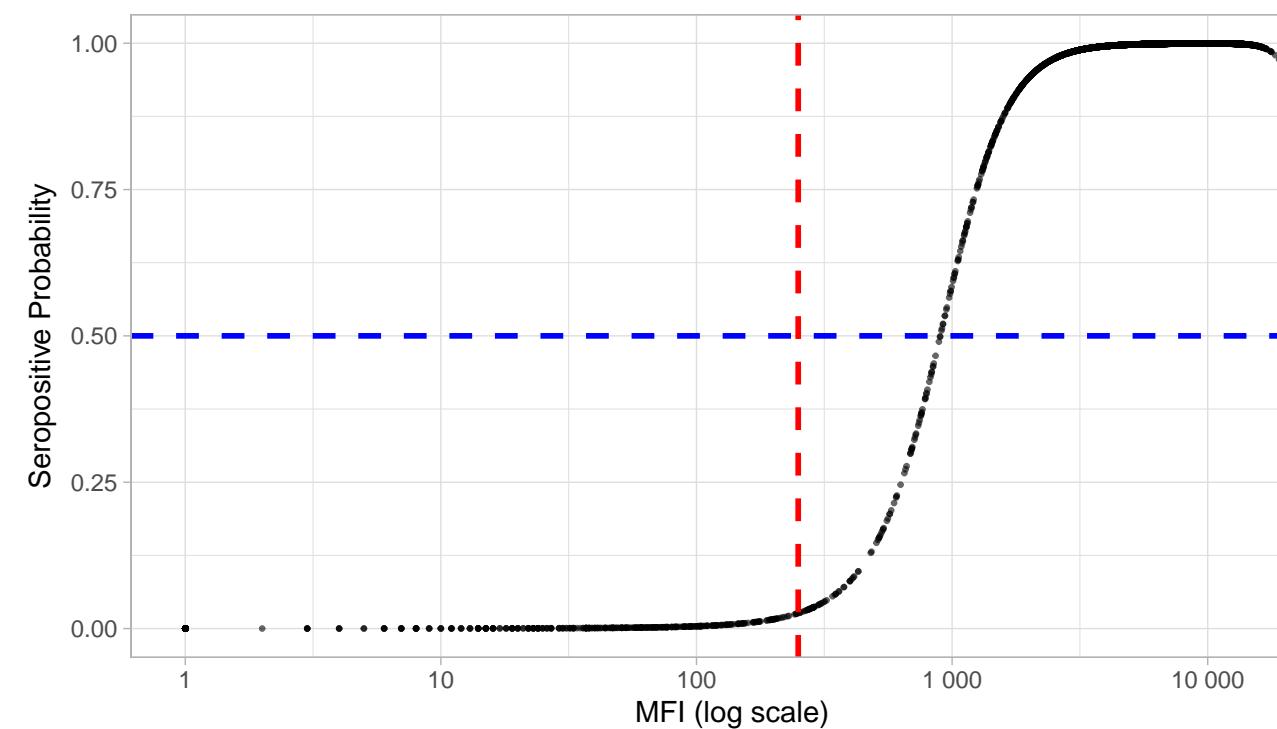


Classification



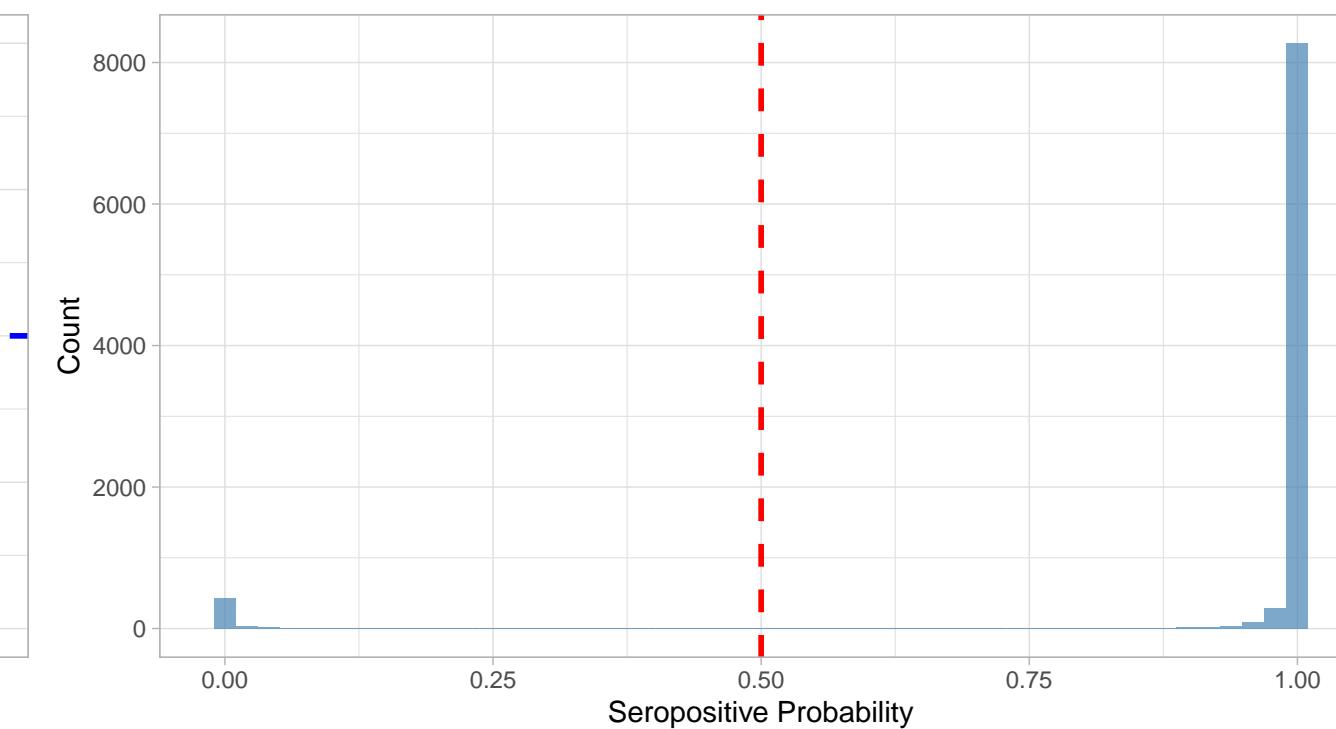
IgG Level vs Seropositive Probability: ebv_vca

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

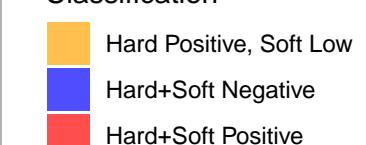


Distribution of Seropositive Probabilities: ebv_vca

Red line = 50% threshold

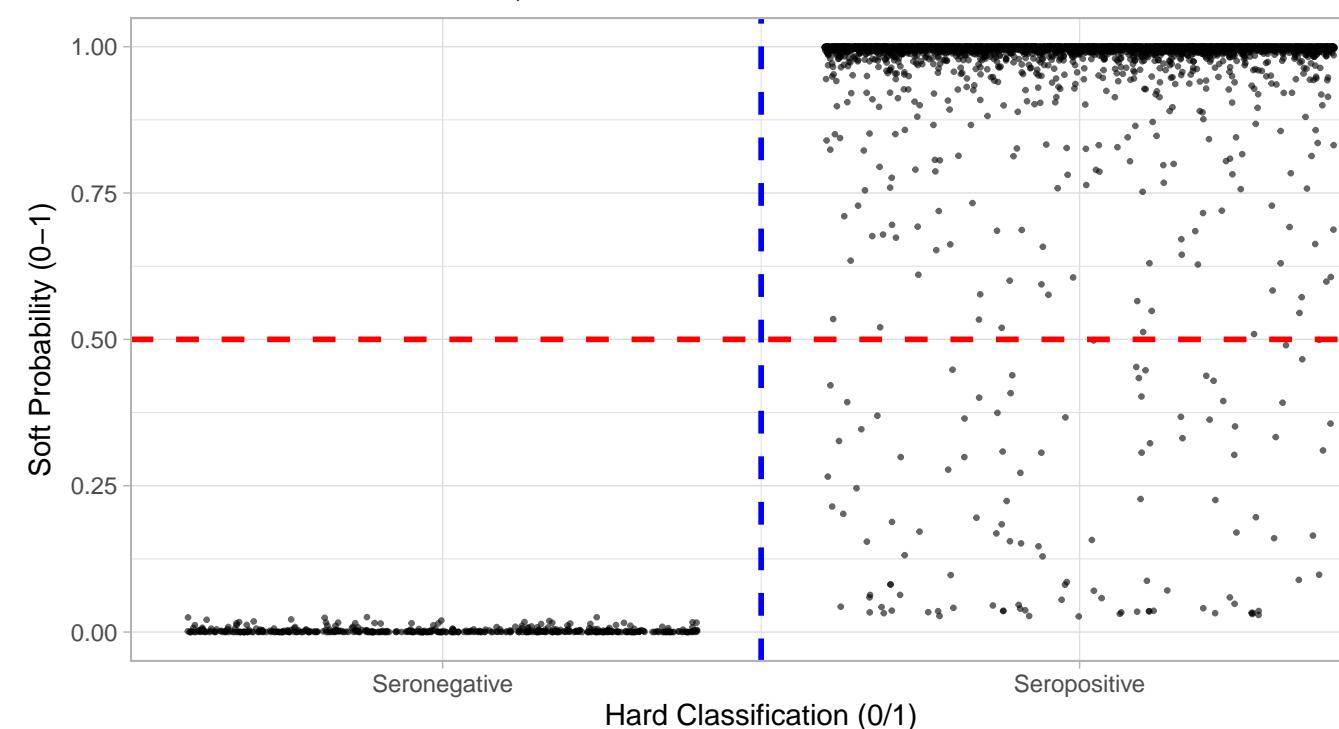


Classification



Hard vs Soft Classification: ebv_vca

Red line = 50% soft threshold, Blue line = hard threshold



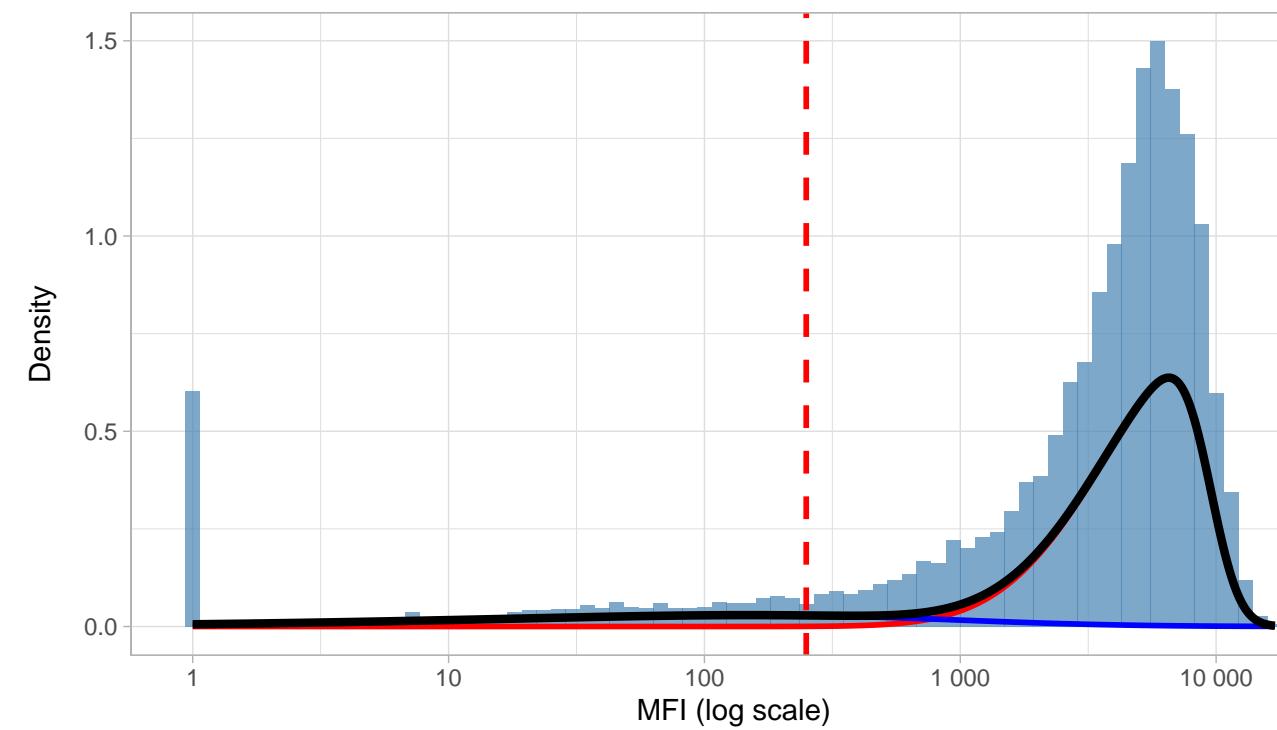
PC1 components not available

Diagnostics: ebv_ebna1

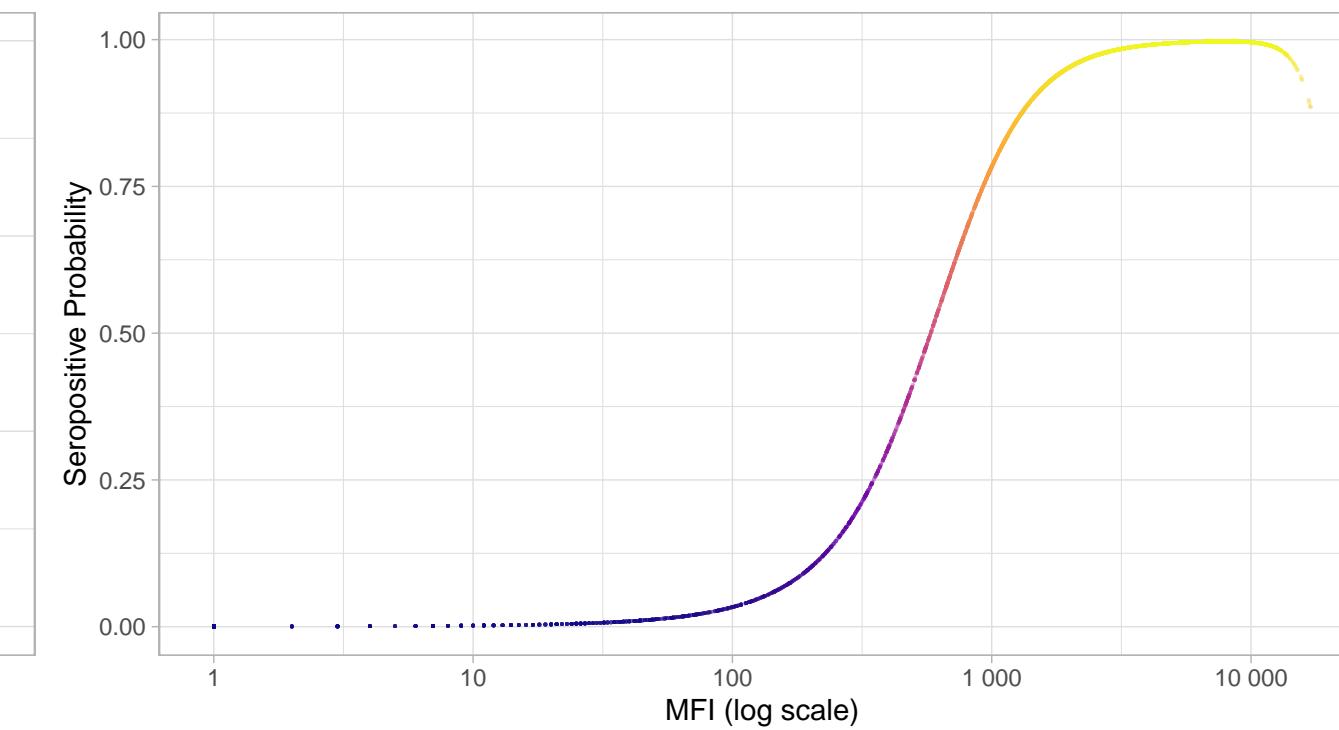
N=9424 | >0.95=6937 | <0.05=864 | Ambig=1623

Original MFI Distribution: ebv_ebna1

Hard cutoff threshold = 250

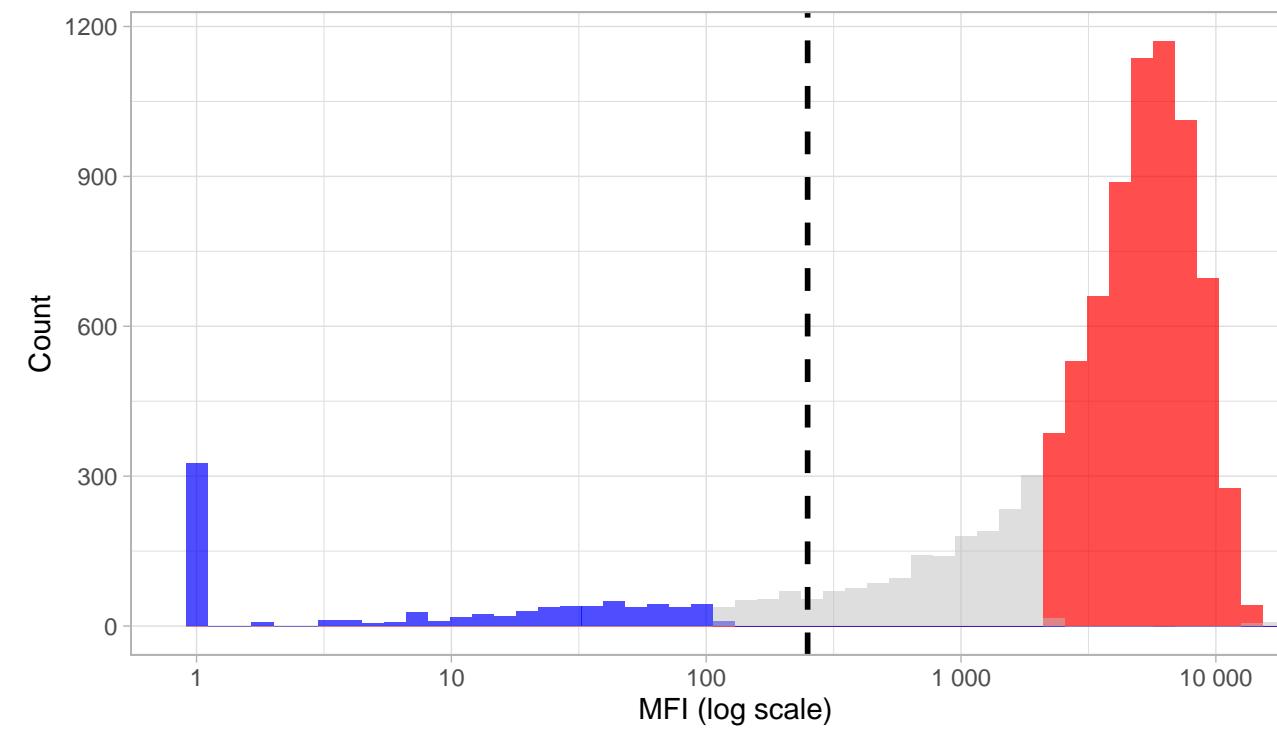


IgG vs Seropositive Probability: ebv_ebna1



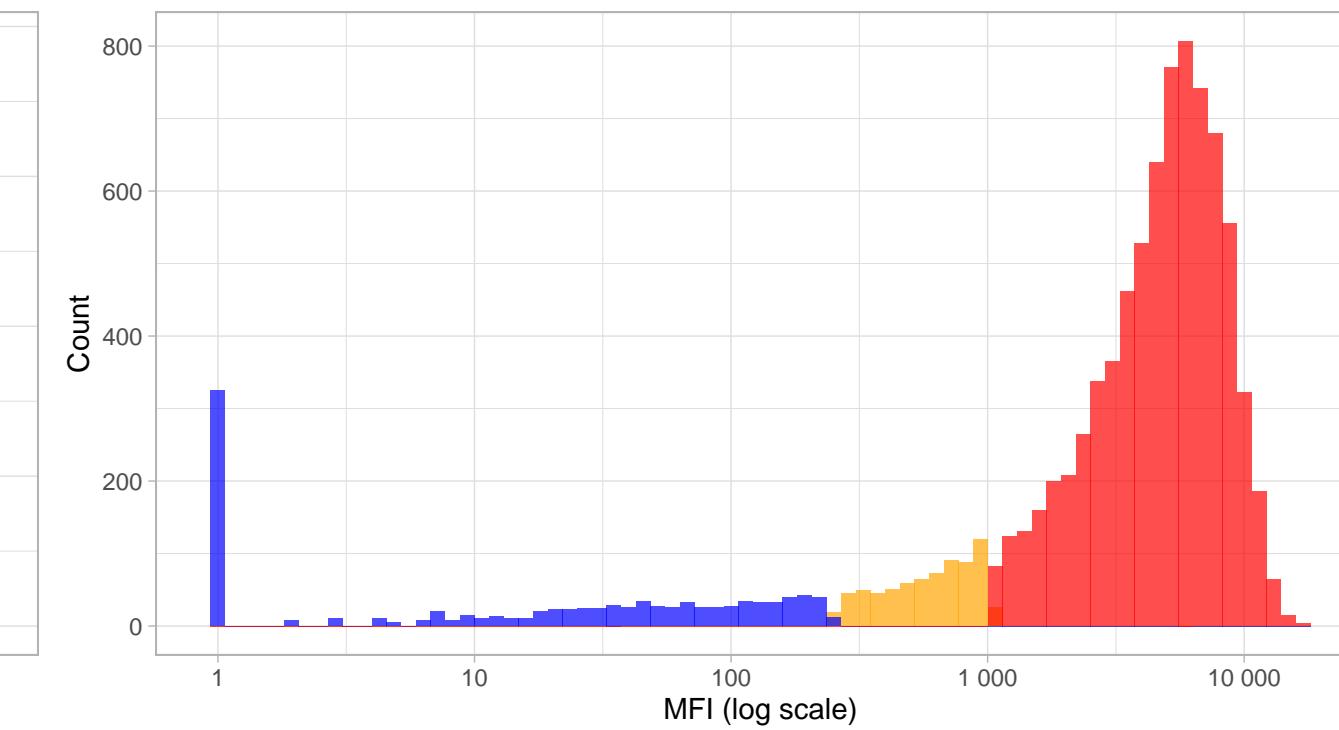
High-Confidence Seropositive Distribution: ebv_ebna1

Prob threshold = 0.96



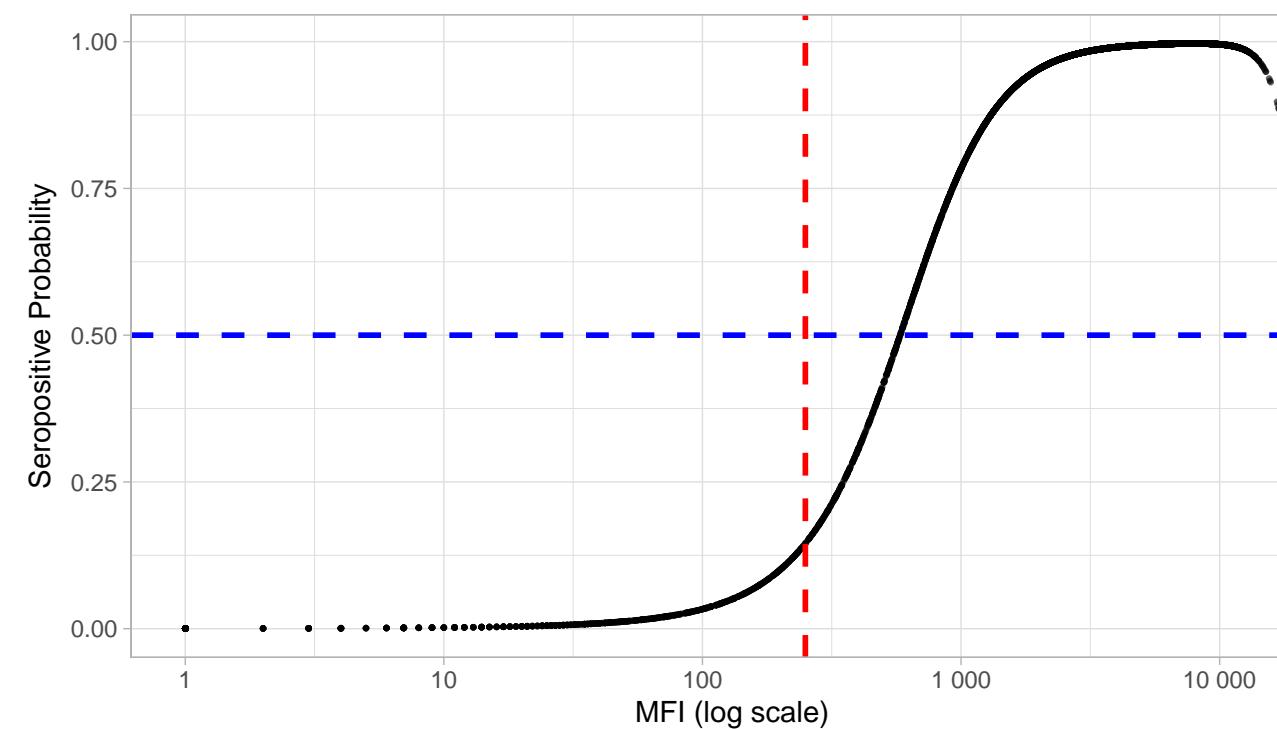
Phenotype Distribution by Classification: ebv_ebna1

Comparing hard vs soft classifications



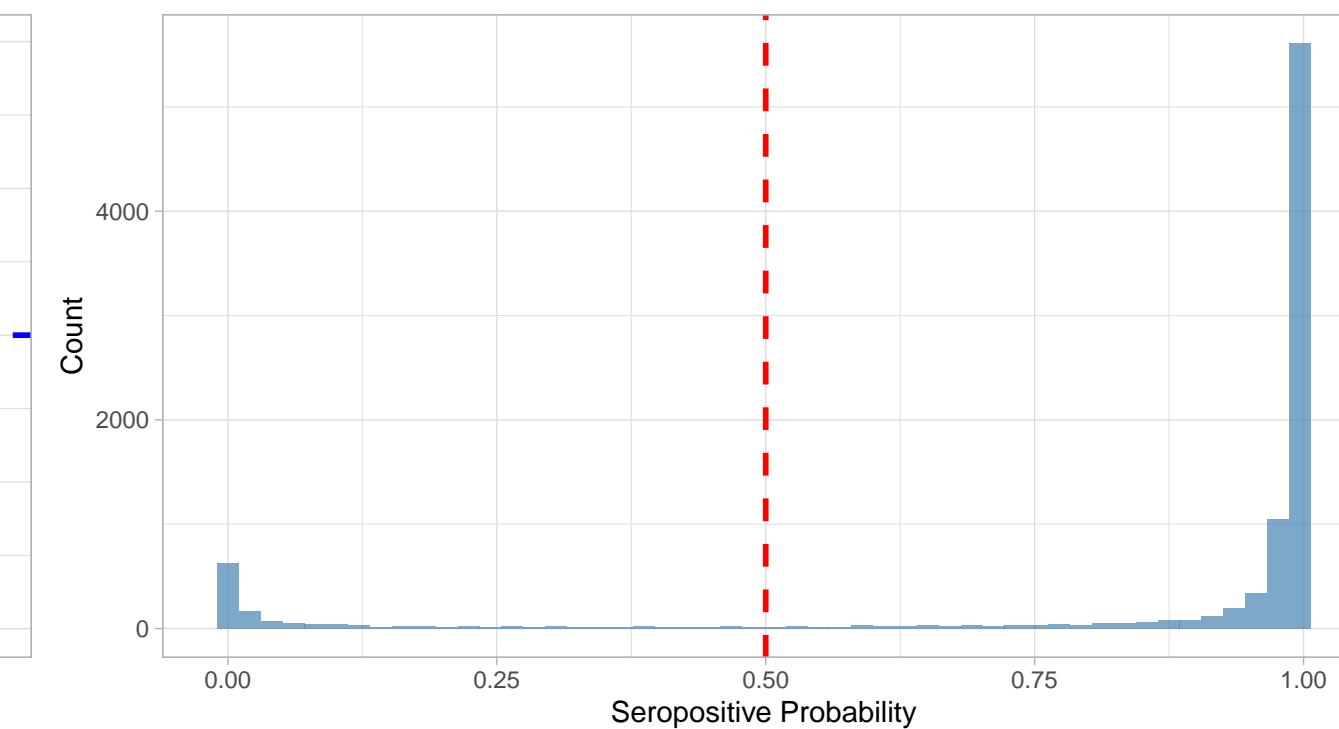
IgG Level vs Seropositive Probability: ebv_ebna1

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



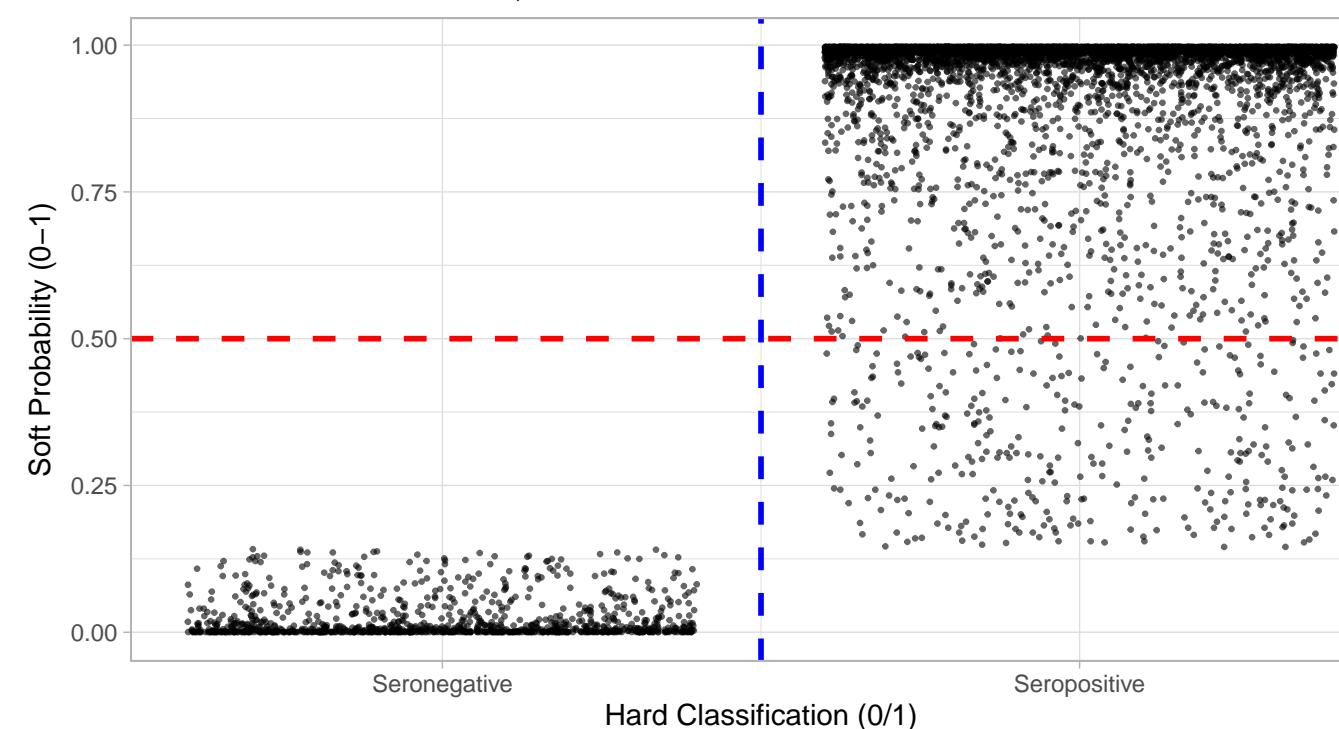
Distribution of Seropositive Probabilities: ebv_ebna1

Red line = 50% threshold



Hard vs Soft Classification: ebv_ebna1

Red line = 50% soft threshold, Blue line = hard threshold

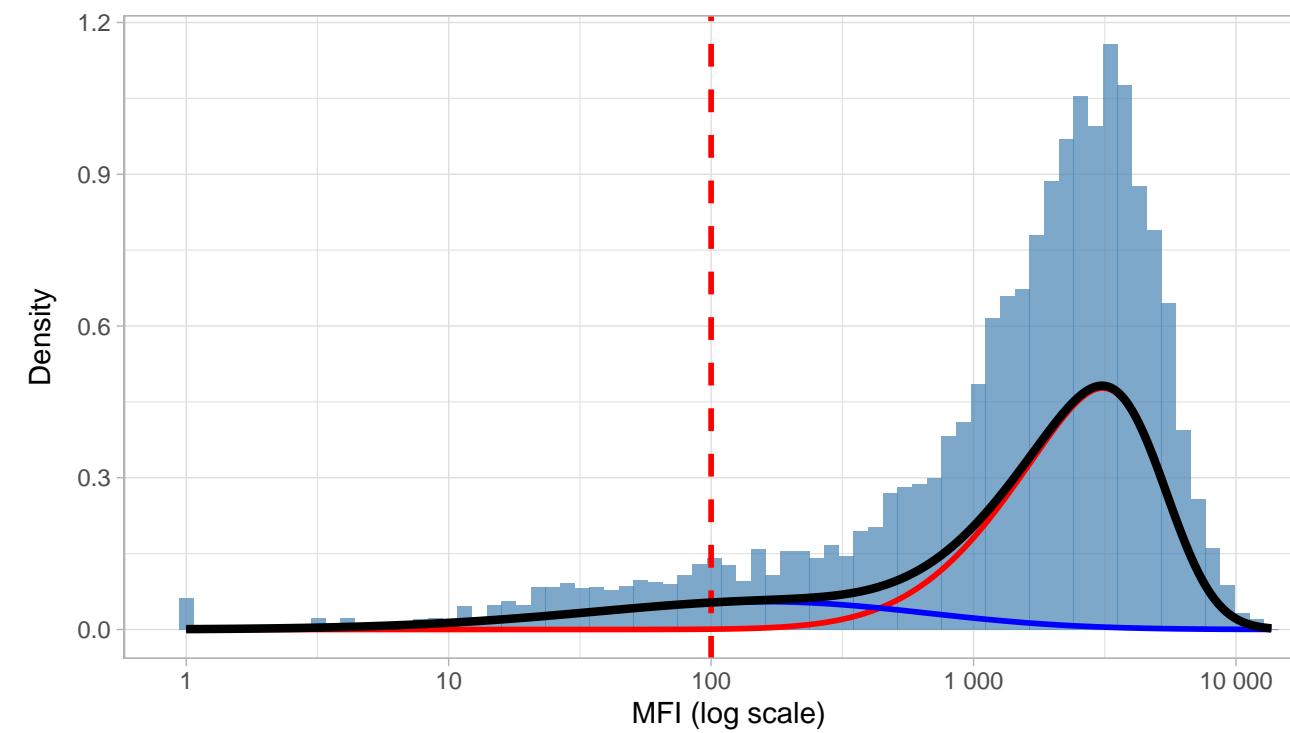


PC1 components not available

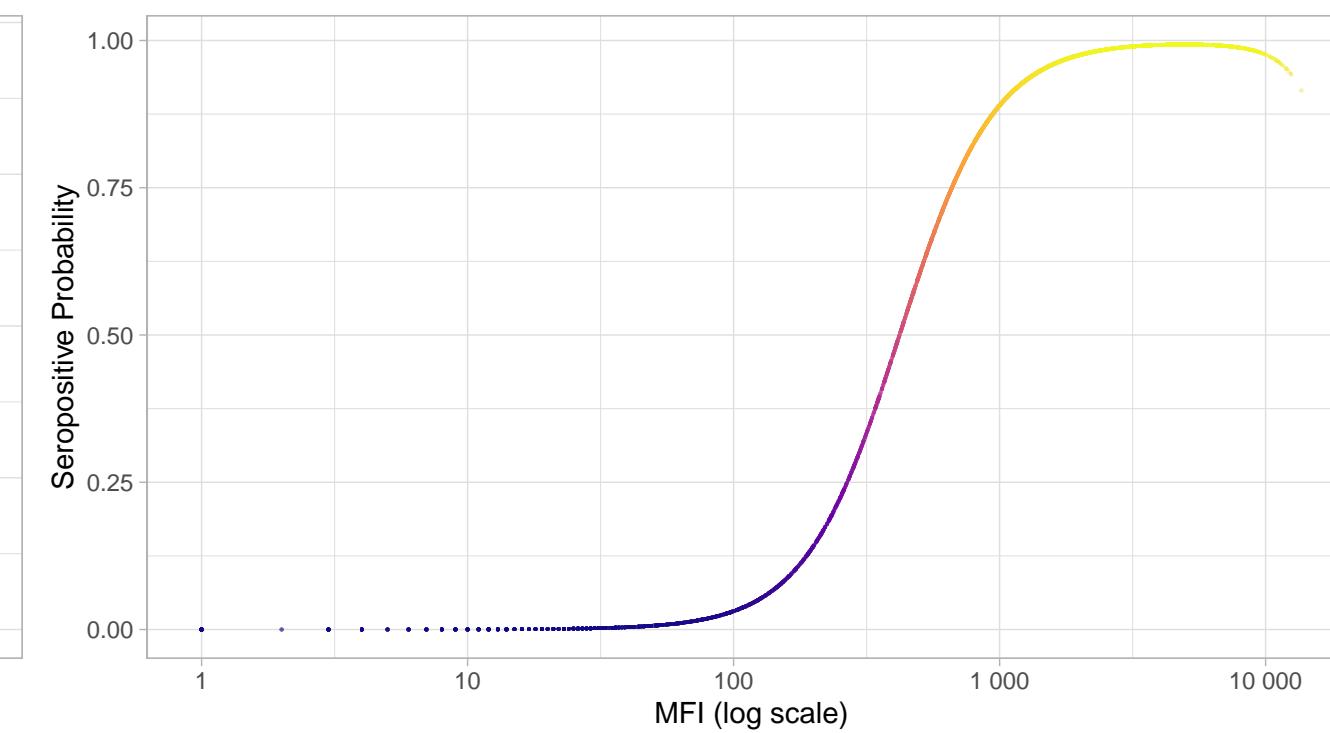
Diagnostics: ebv_zebra

N=9424 | >0.95=5701 | <0.05=950 | Ambig=2773

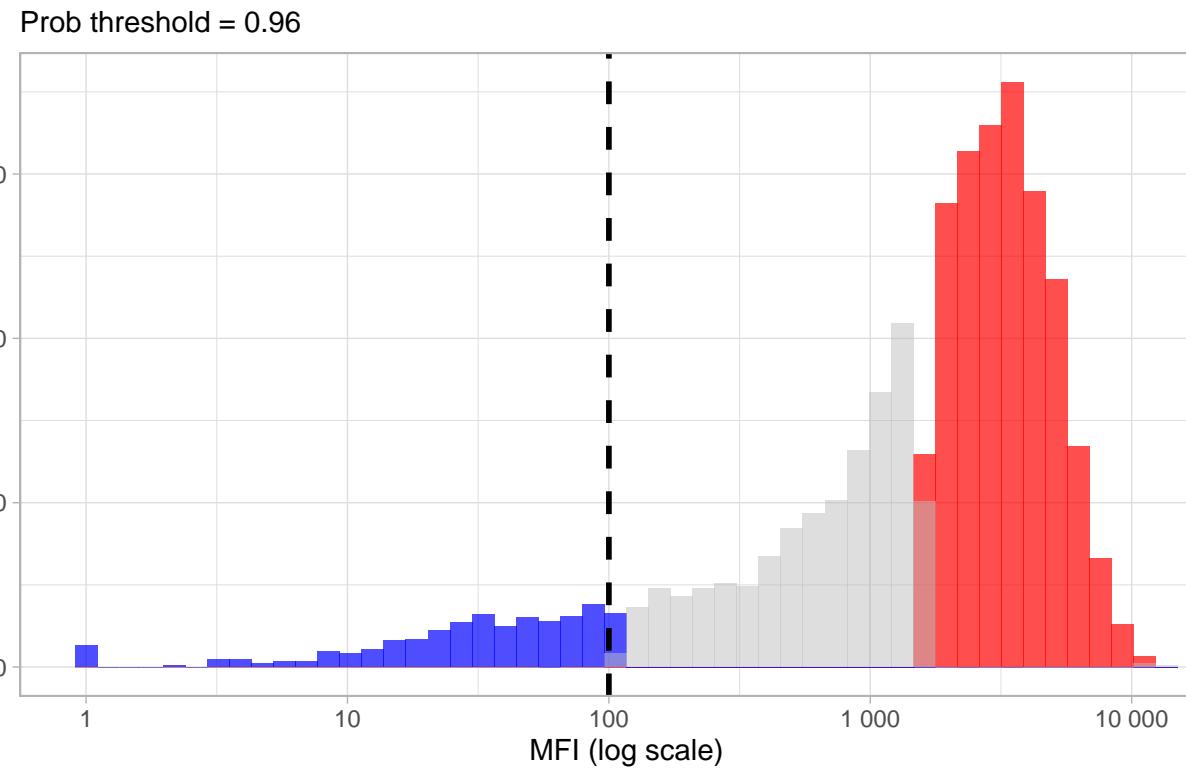
Original MFI Distribution: ebv_zebra
Hard cutoff threshold = 100



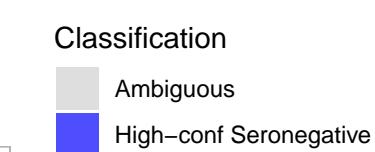
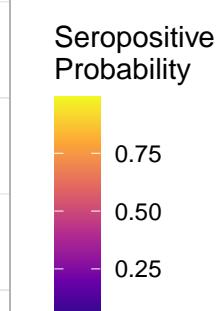
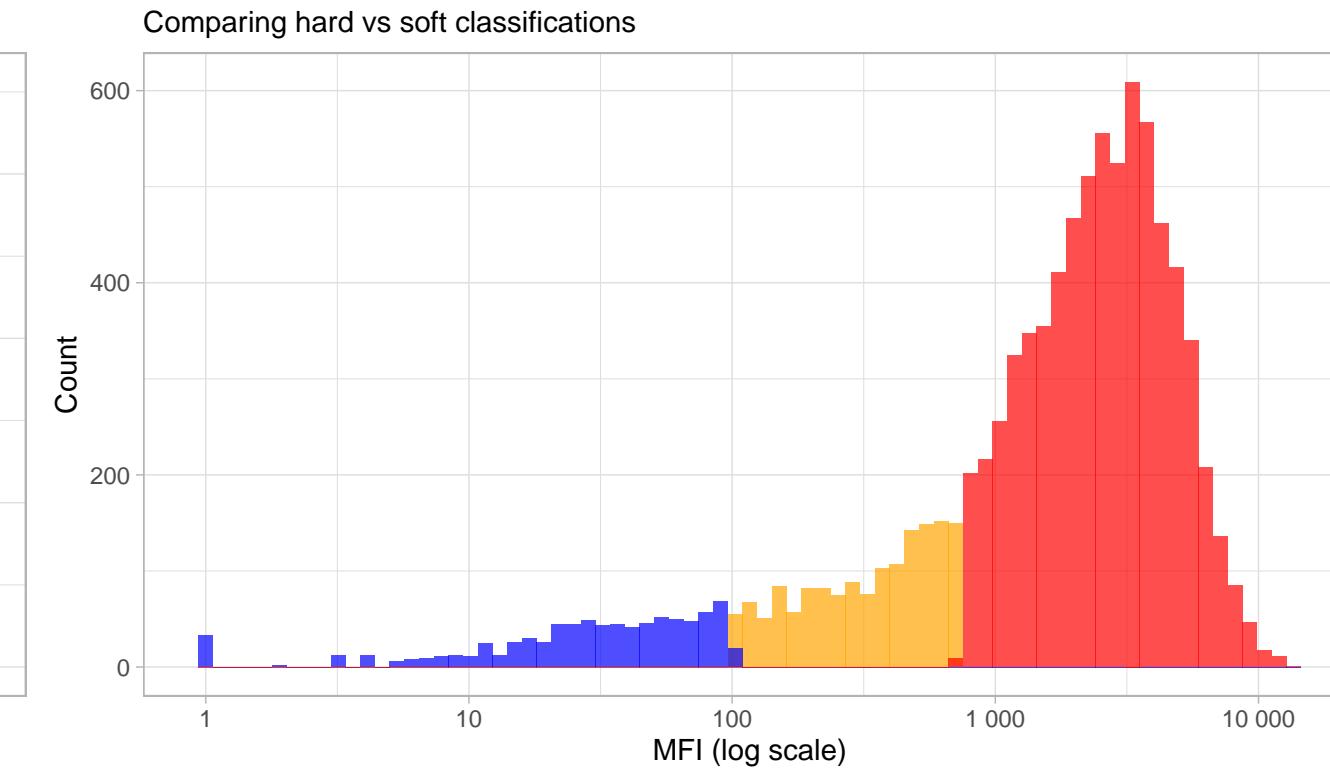
IgG vs Seropositive Probability: ebv_zebra



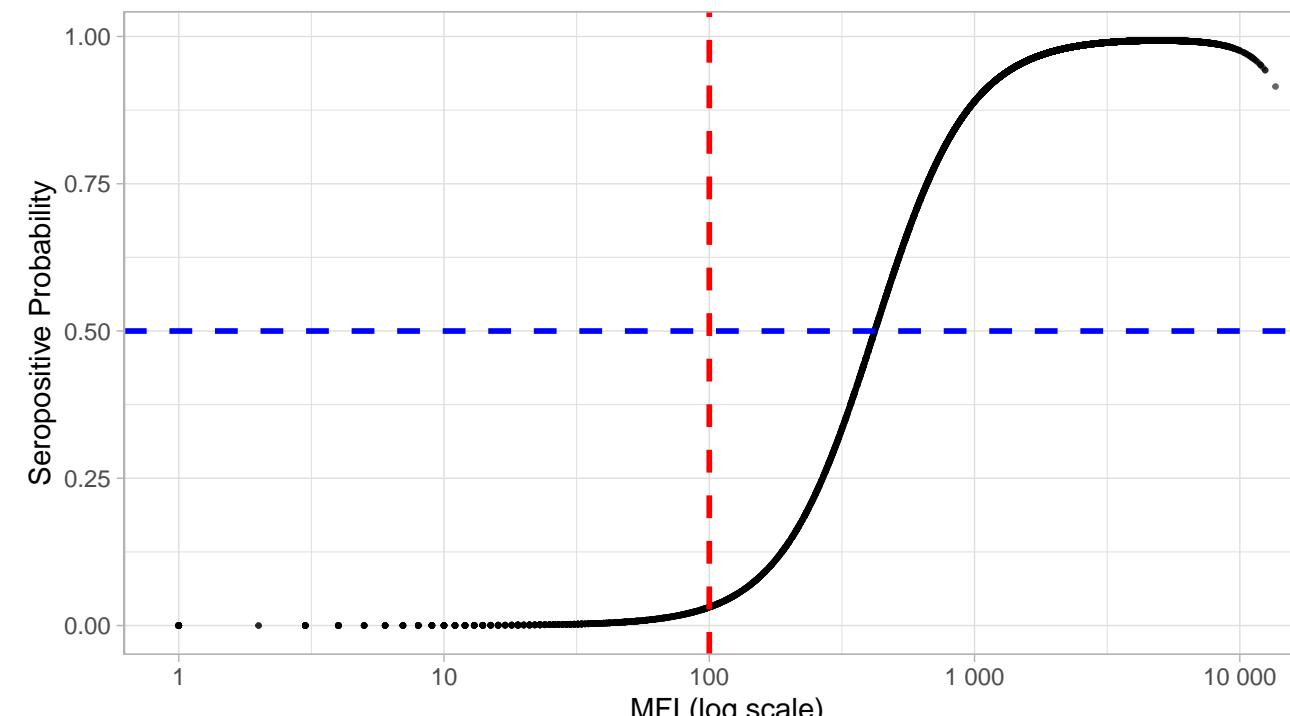
High-Confidence Seropositive Distribution: ebv_zebra



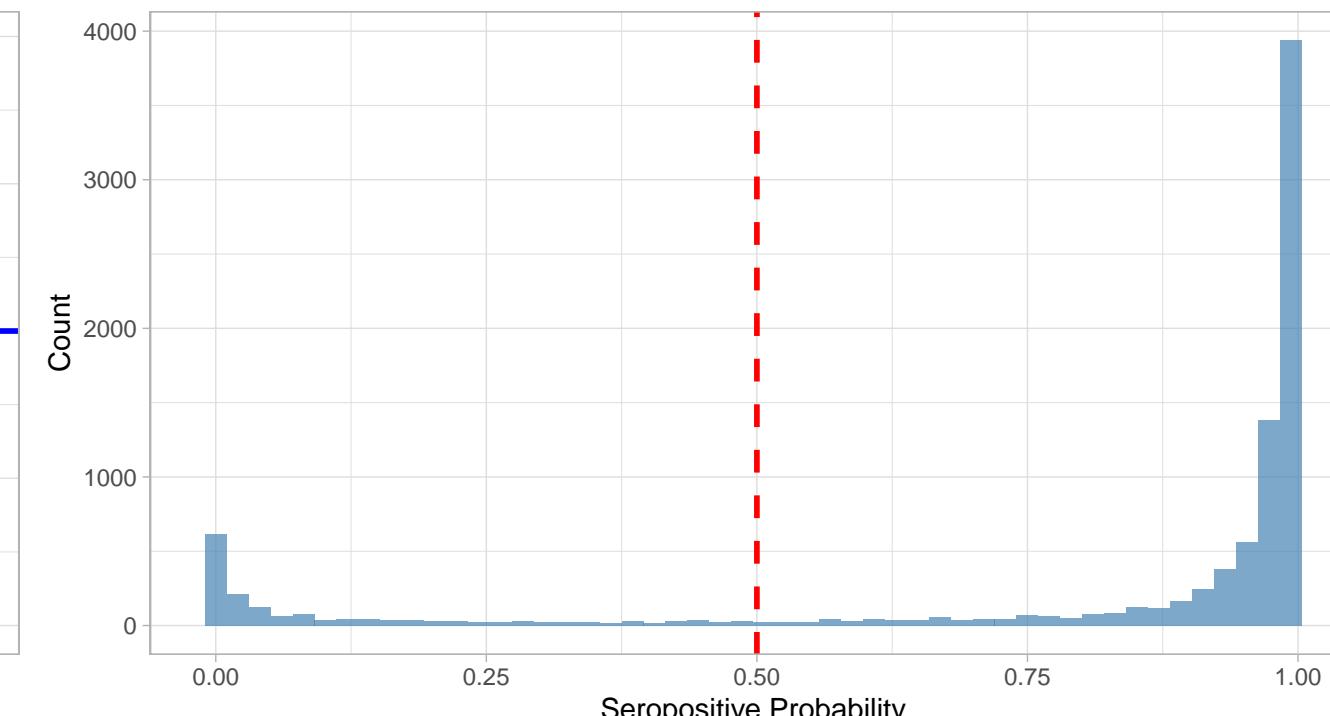
Phenotype Distribution by Classification: ebv_zebra



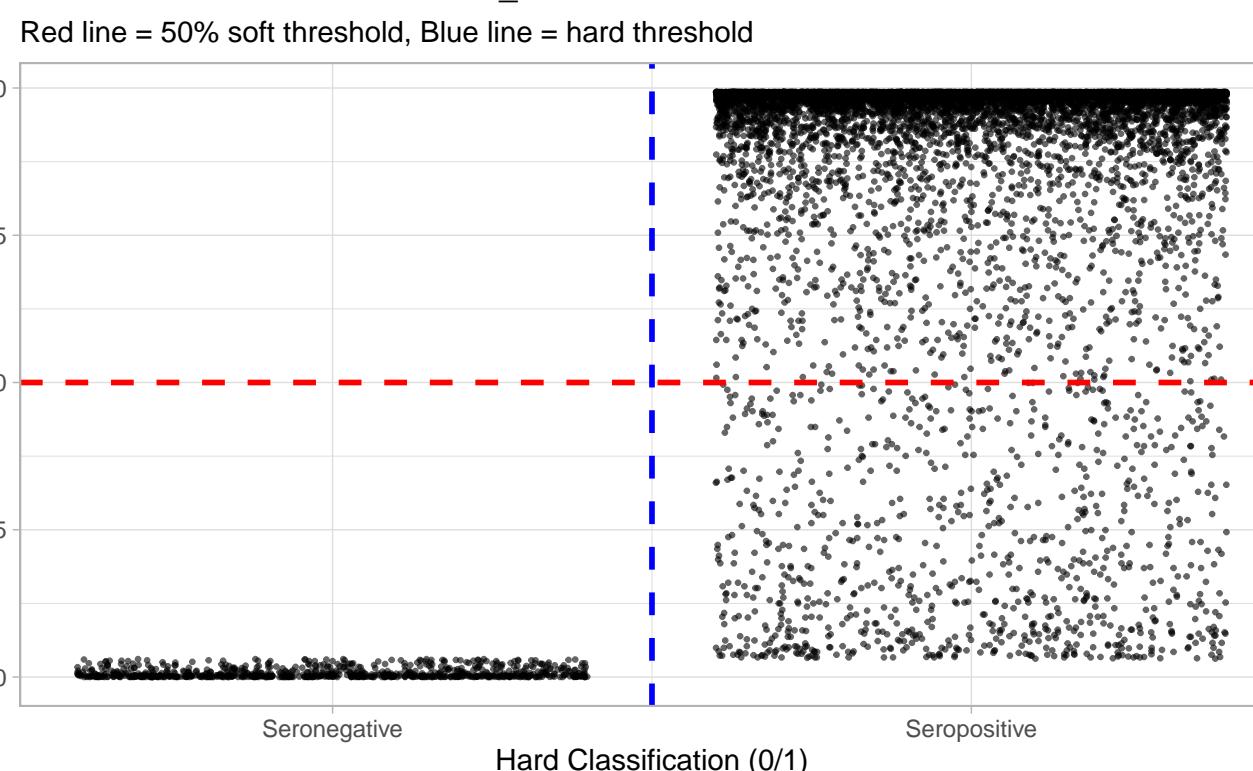
IgG Level vs Seropositive Probability: ebv_zebra
Red line = hard threshold, Blue line = 50% probability



Distribution of Seropositive Probabilities: ebv_zebra
Red line = 50% threshold



Hard vs Soft Classification: ebv_zebra



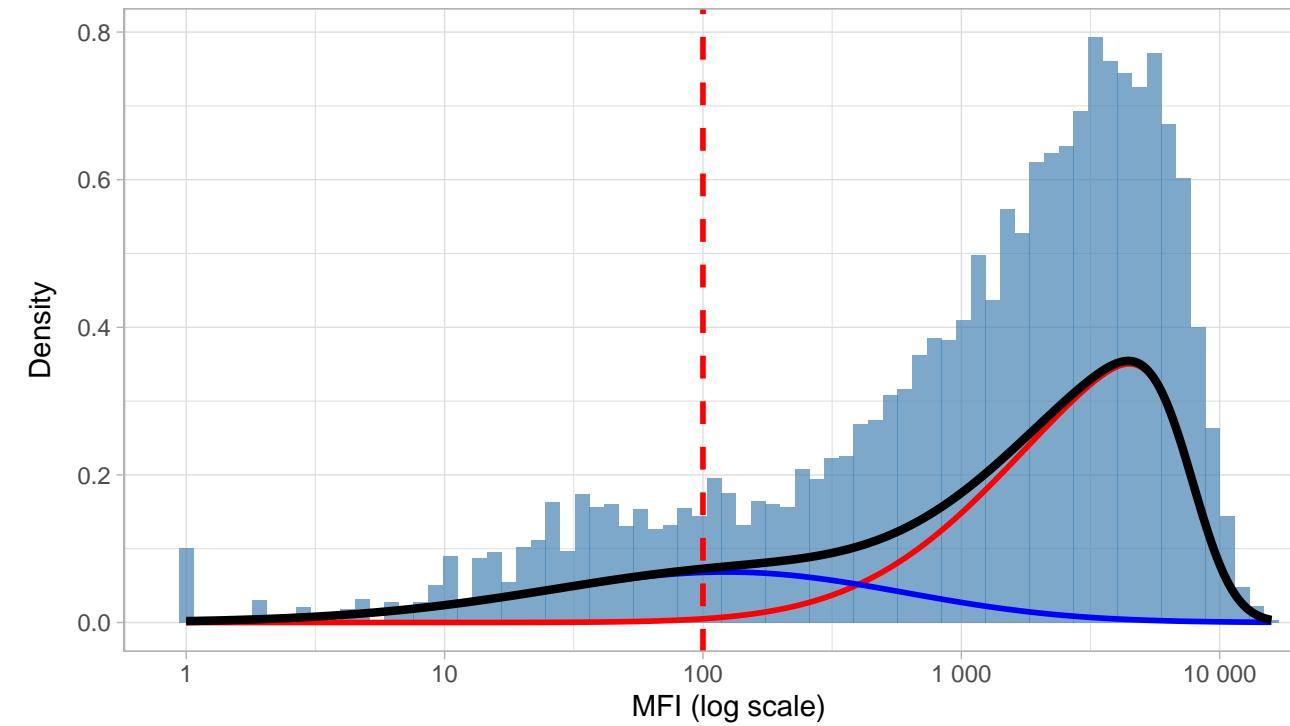
PC1 components not available

Diagnostics: ebv_ead

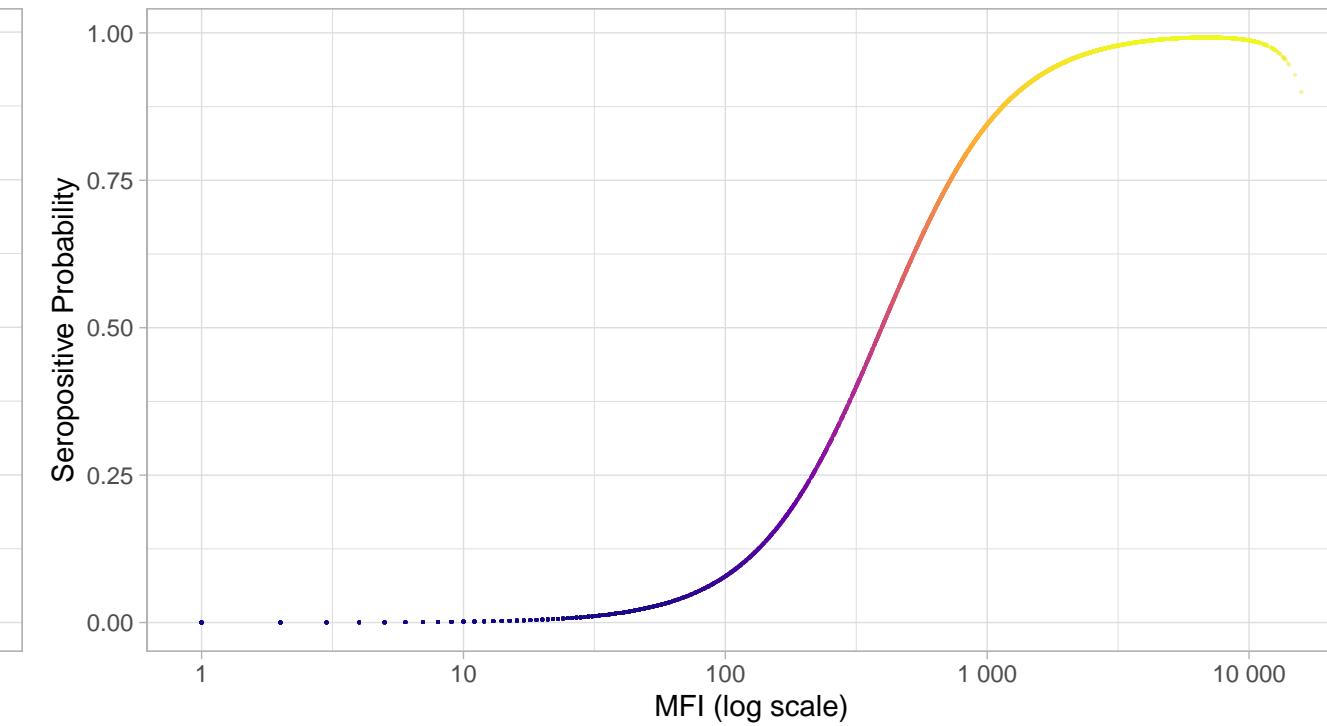
N=9424 | >0.95=4384 | <0.05=1148 | Ambig=3892

Original MFI Distribution: ebv_ead

Hard cutoff threshold = 100

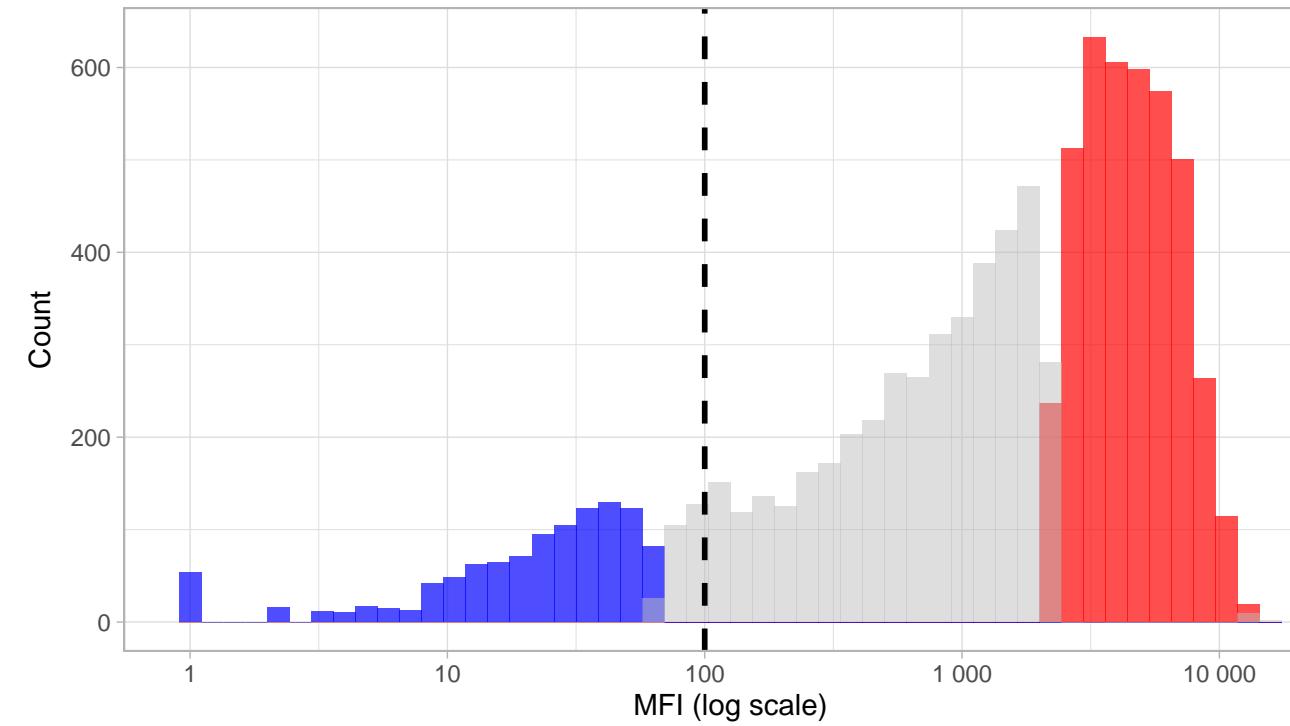


IgG vs Seropositive Probability: ebv_ead



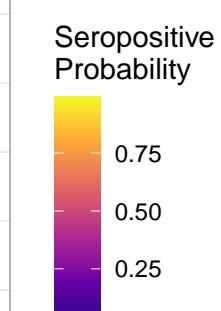
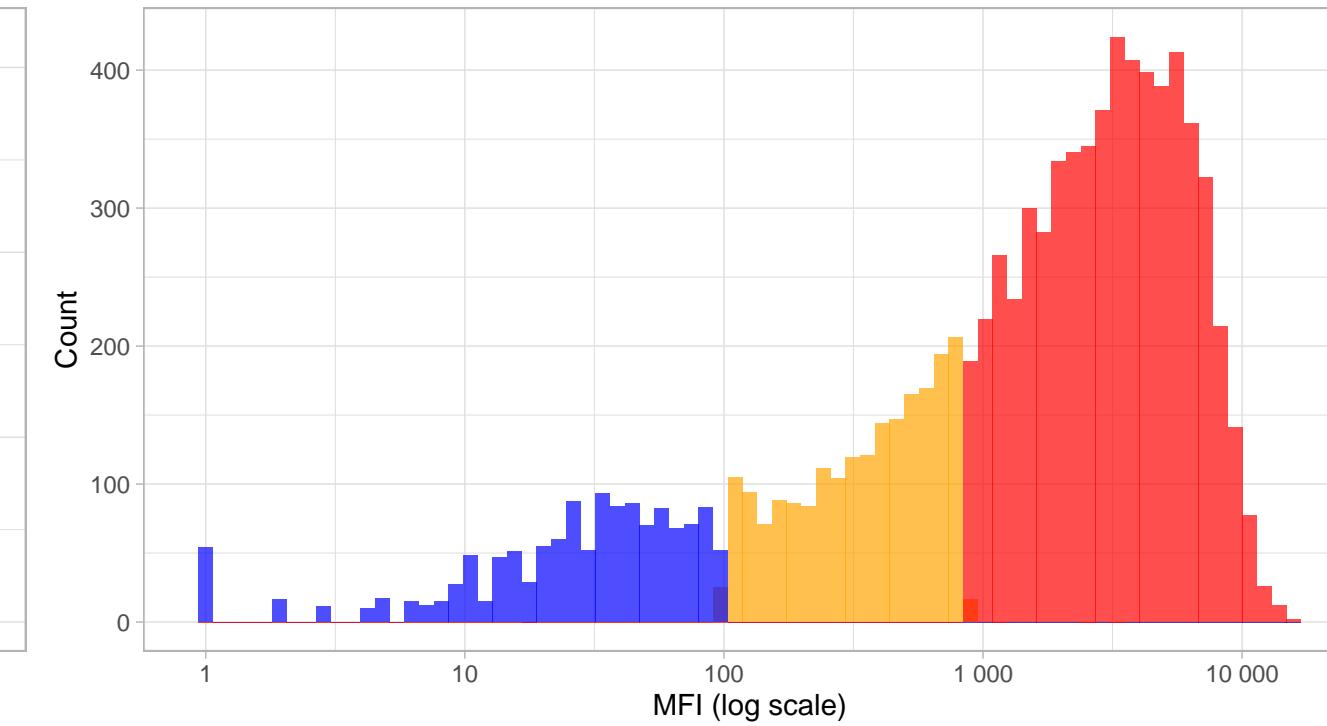
High-Confidence Seropositive Distribution: ebv_ead

Prob threshold = 0.96



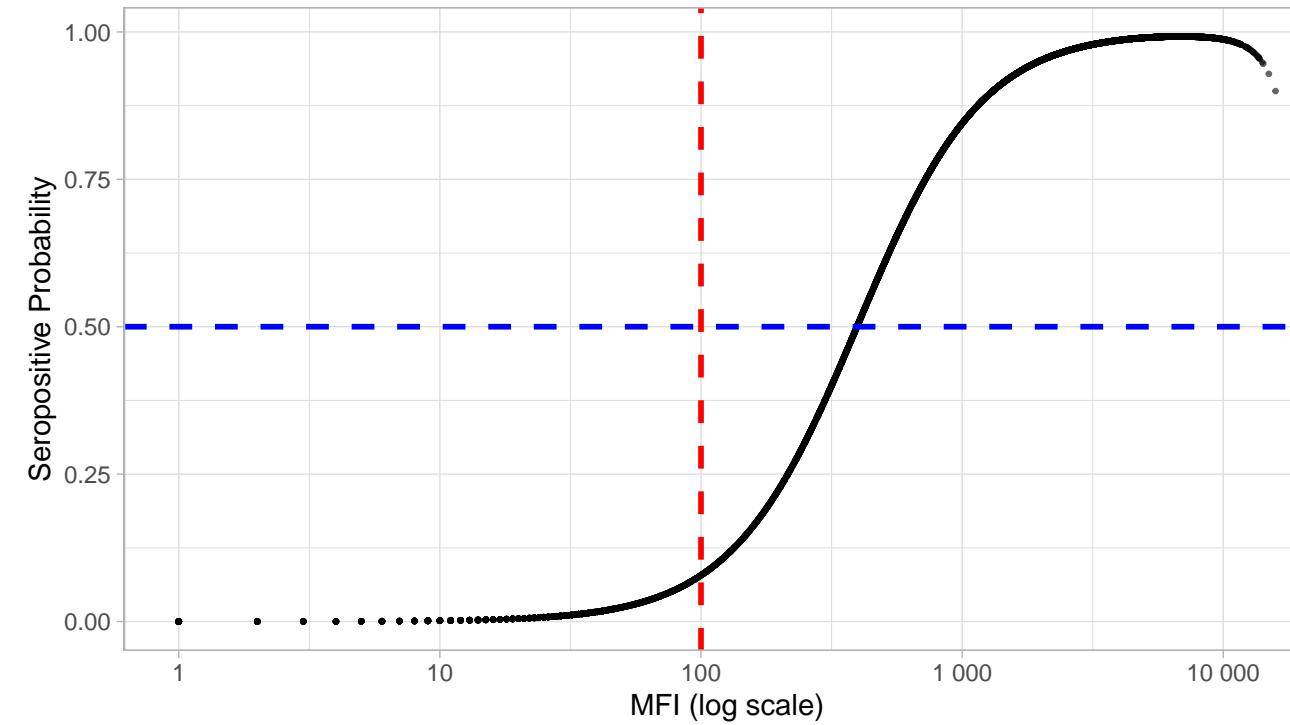
Phenotype Distribution by Classification: ebv_ead

Comparing hard vs soft classifications



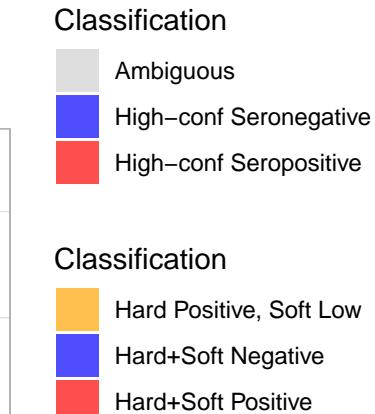
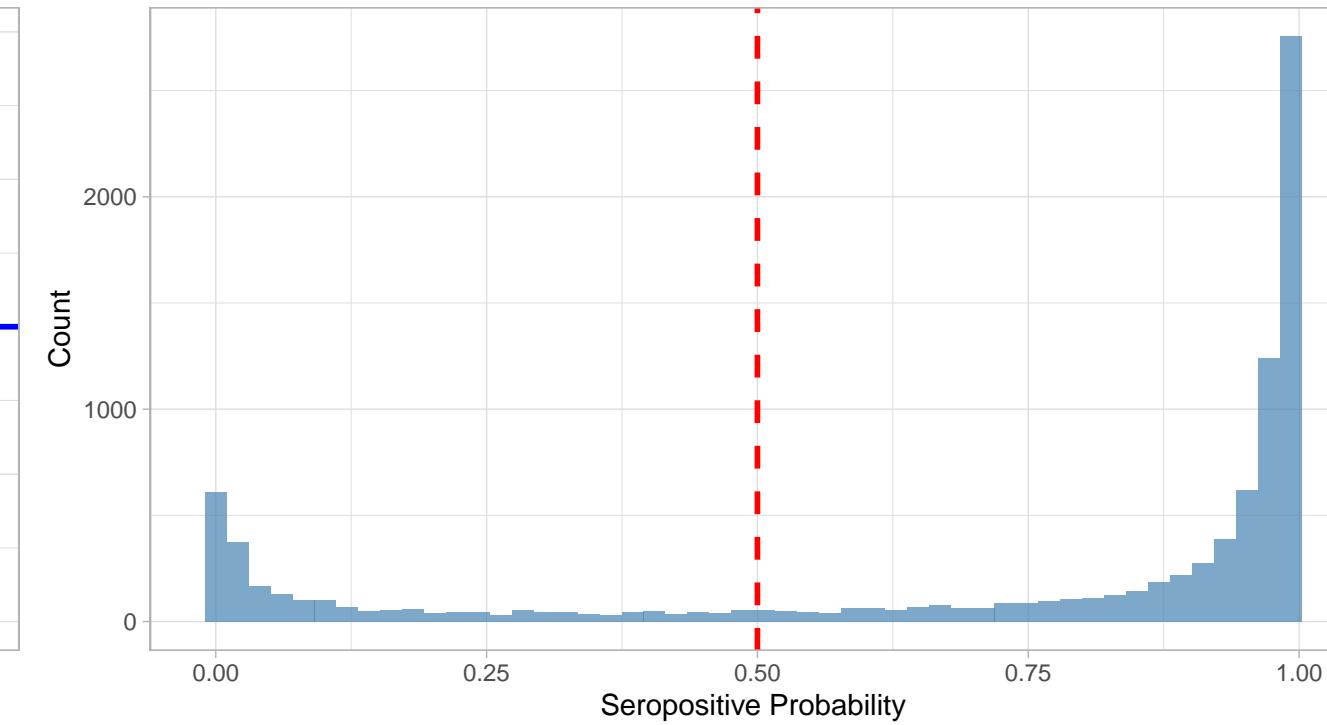
IgG Level vs Seropositive Probability: ebv_ead

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



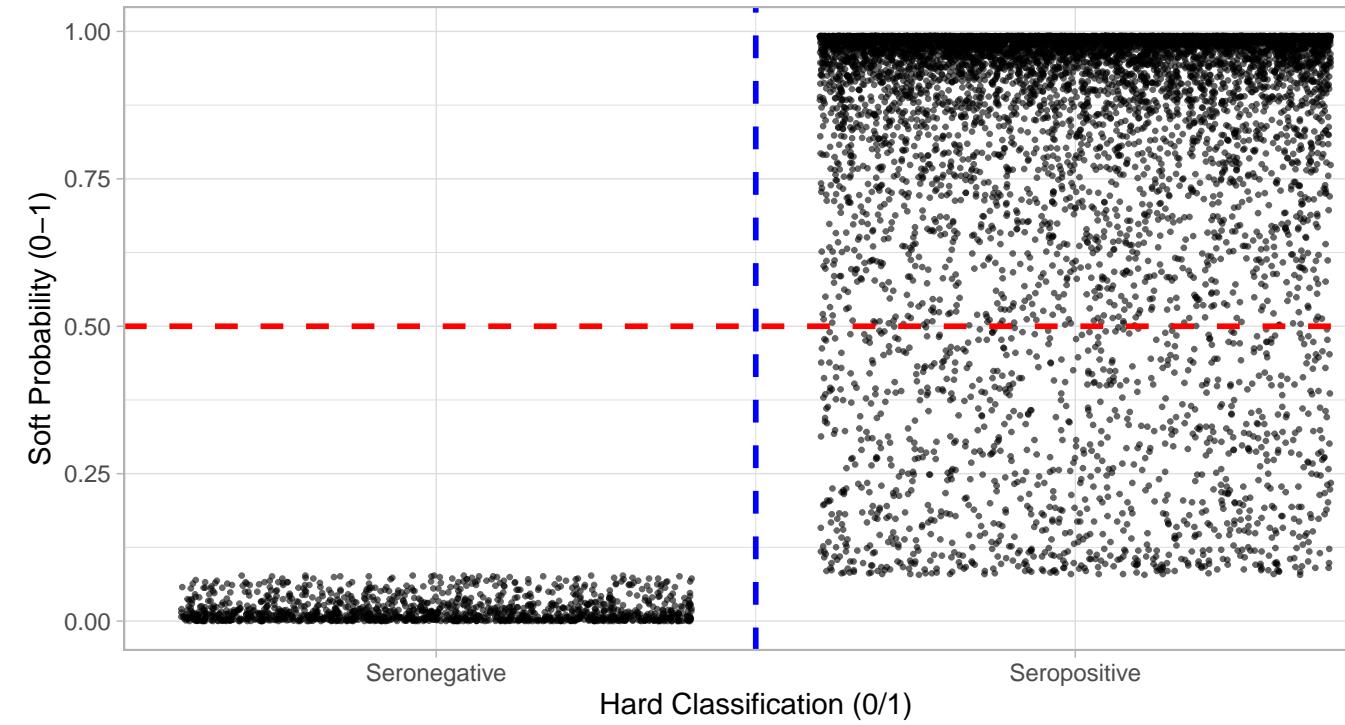
Distribution of Seropositive Probabilities: ebv_ead

Red line = 50% threshold



Hard vs Soft Classification: ebv_ead

Red line = 50% soft threshold, Blue line = hard threshold



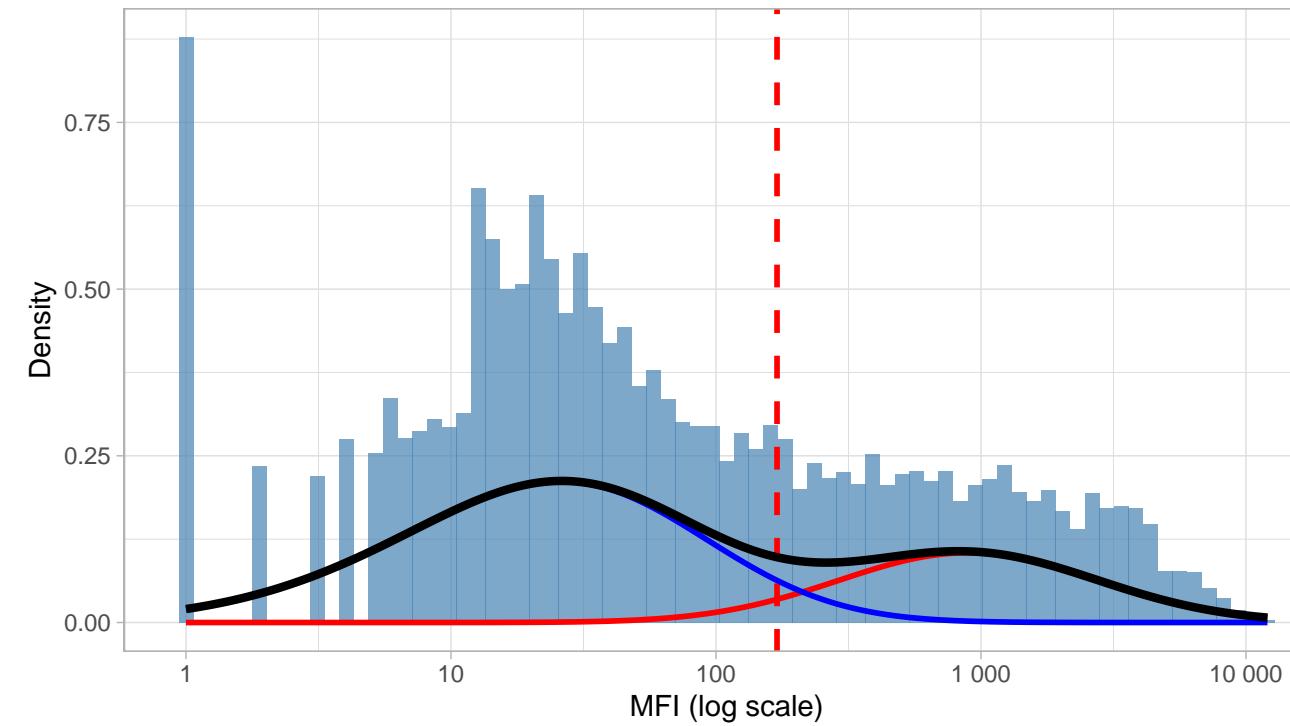
PC1 components not available

Diagnostics: hp_omp

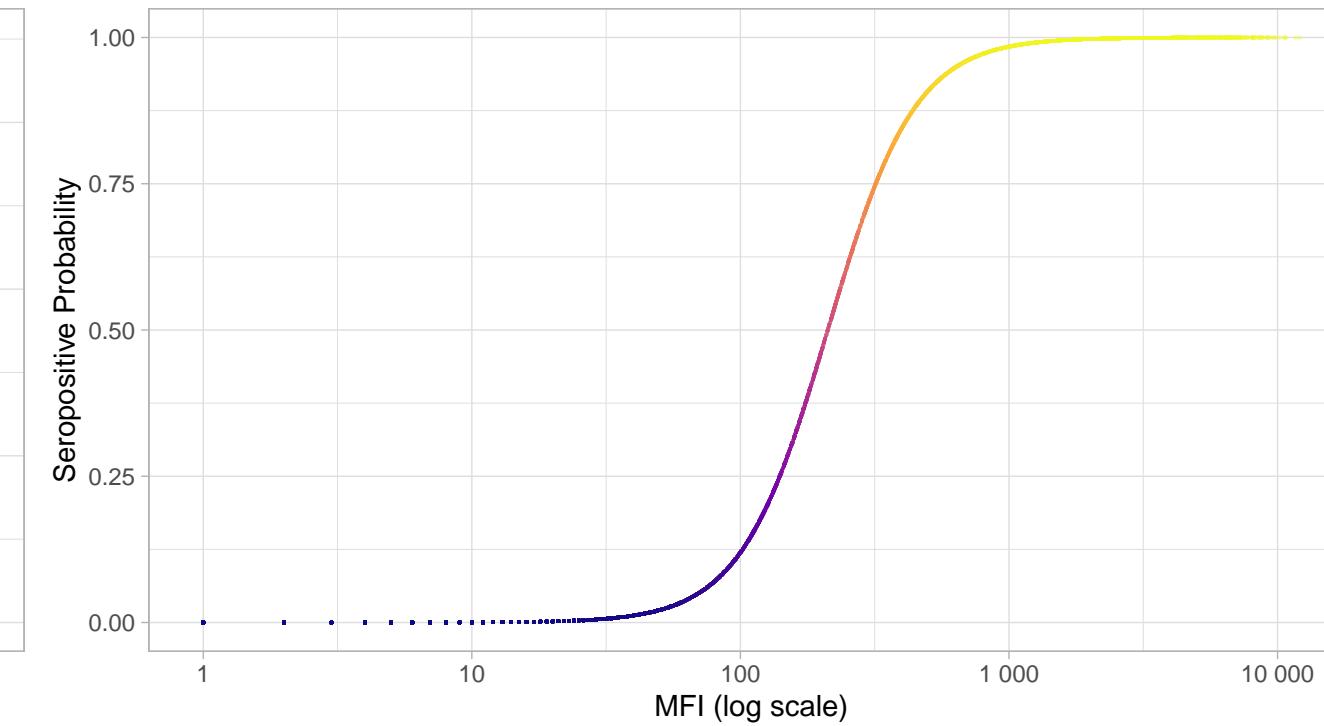
N=9424 | >0.95=1713 | <0.05=5447 | Ambig=2264

Original MFI Distribution: hp_omp

Hard cutoff threshold = 170

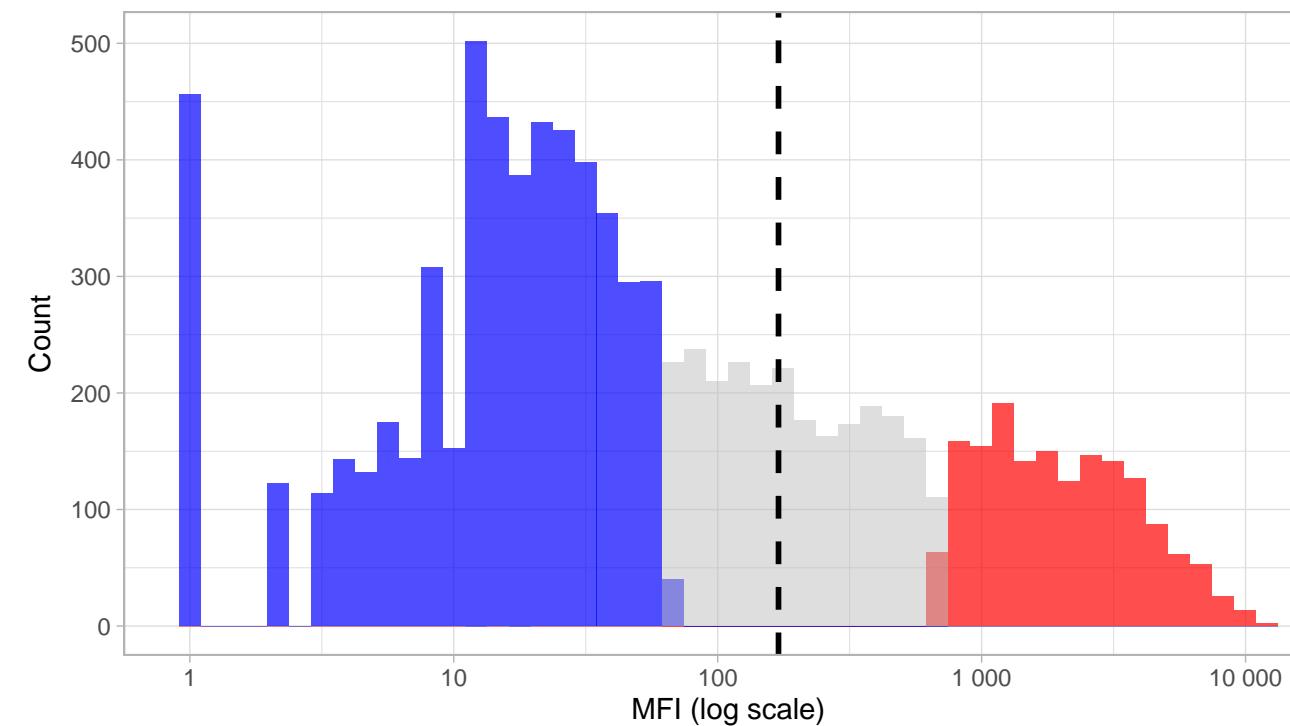


IgG vs Seropositive Probability: hp_omp



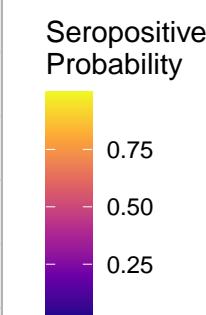
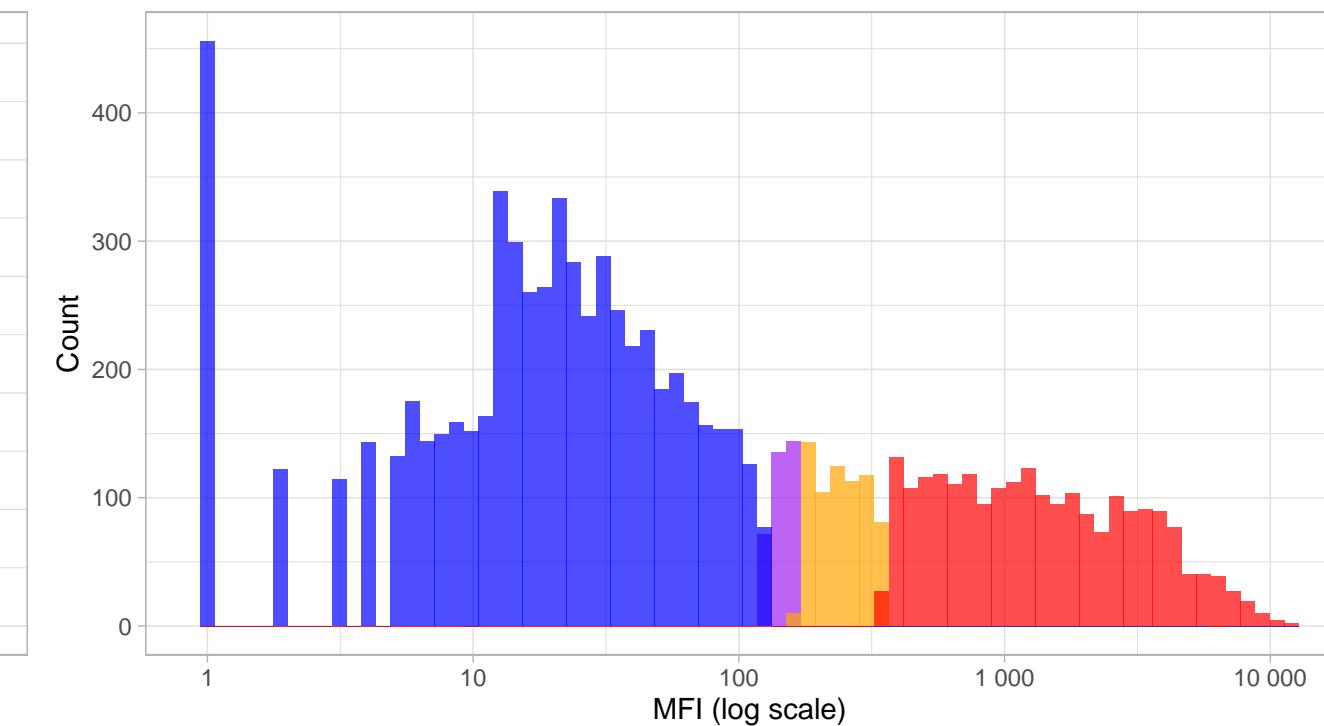
High-Confidence Seropositive Distribution: hp_omp

Prob threshold = 0.96

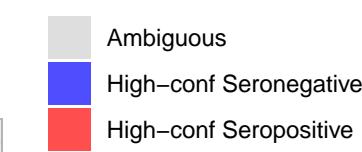


Phenotype Distribution by Classification: hp_omp

Comparing hard vs soft classifications

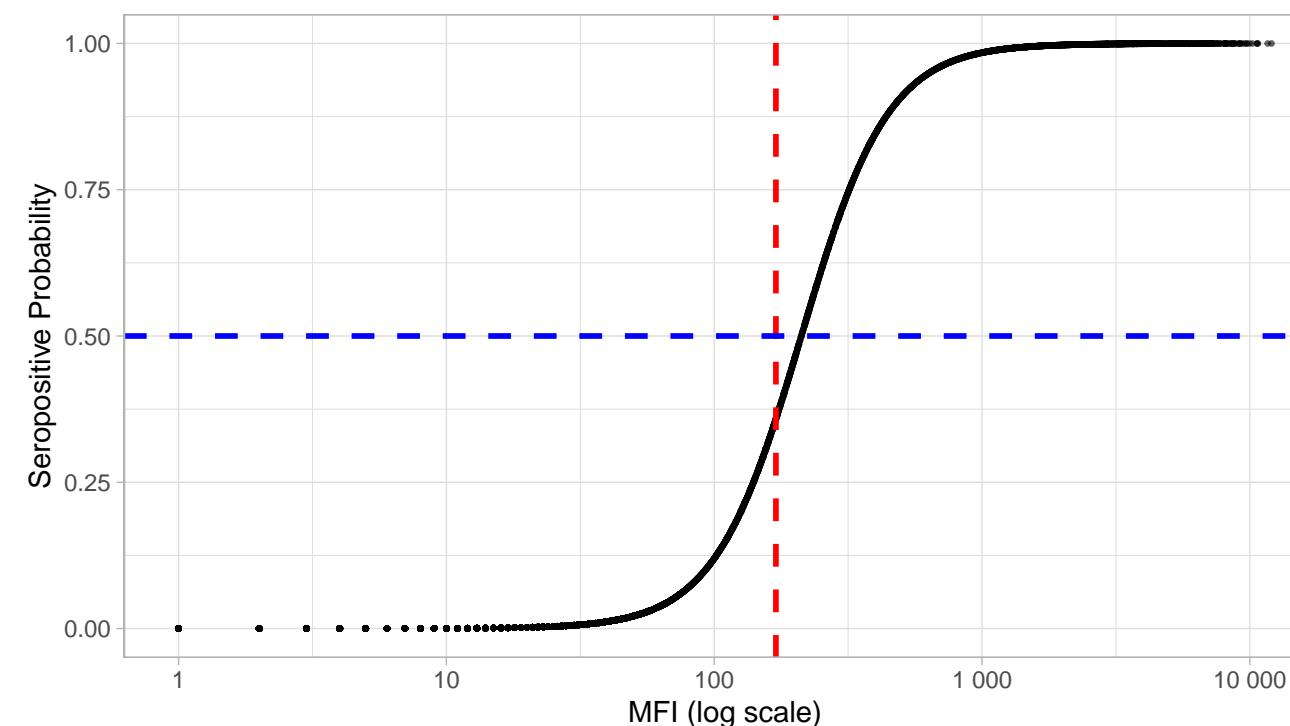


Classification



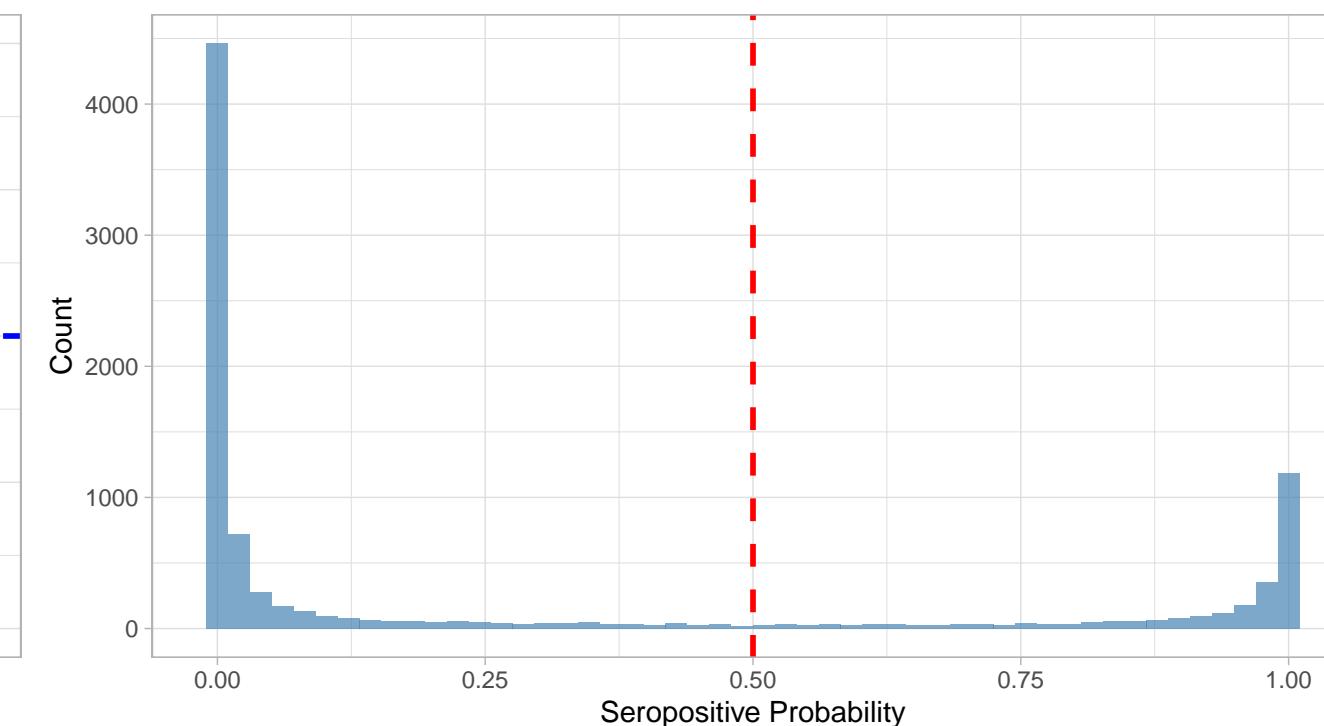
IgG Level vs Seropositive Probability: hp_omp

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



Distribution of Seropositive Probabilities: hp_omp

Red line = 50% threshold

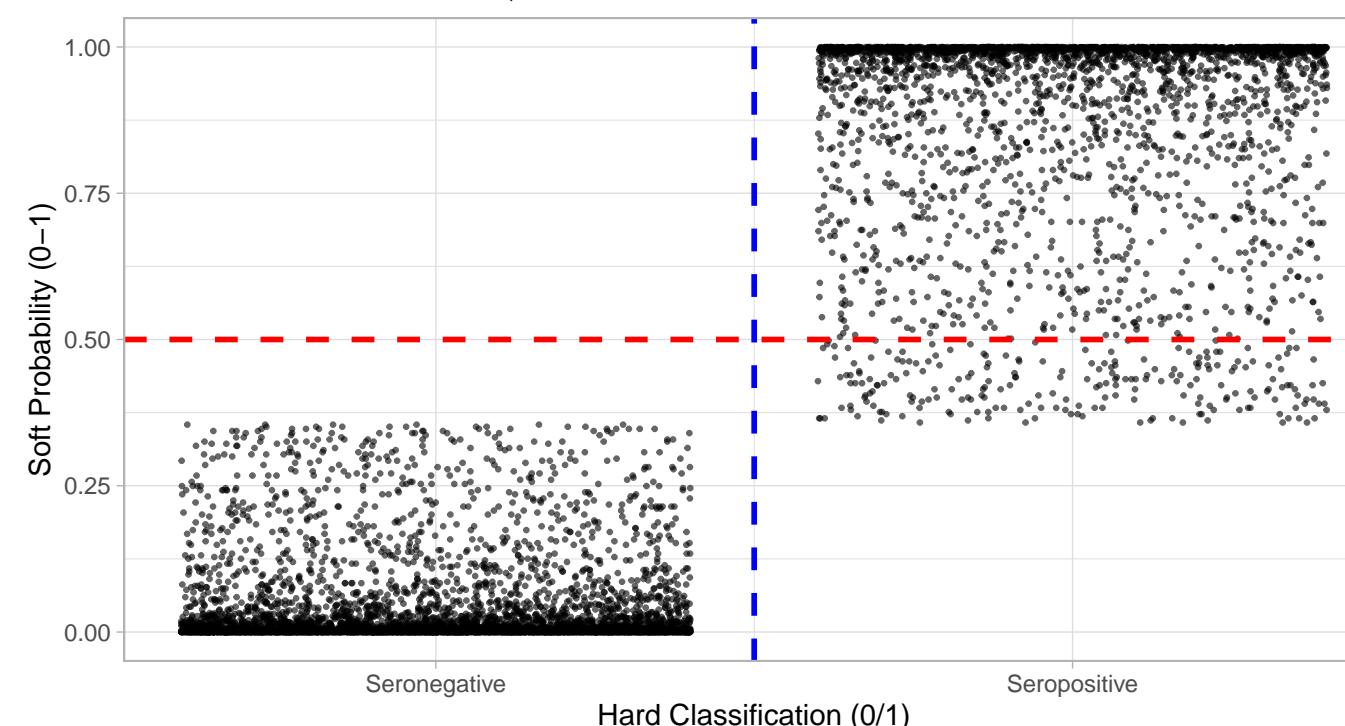


Classification



Hard vs Soft Classification: hp_omp

Red line = 50% soft threshold, Blue line = hard threshold



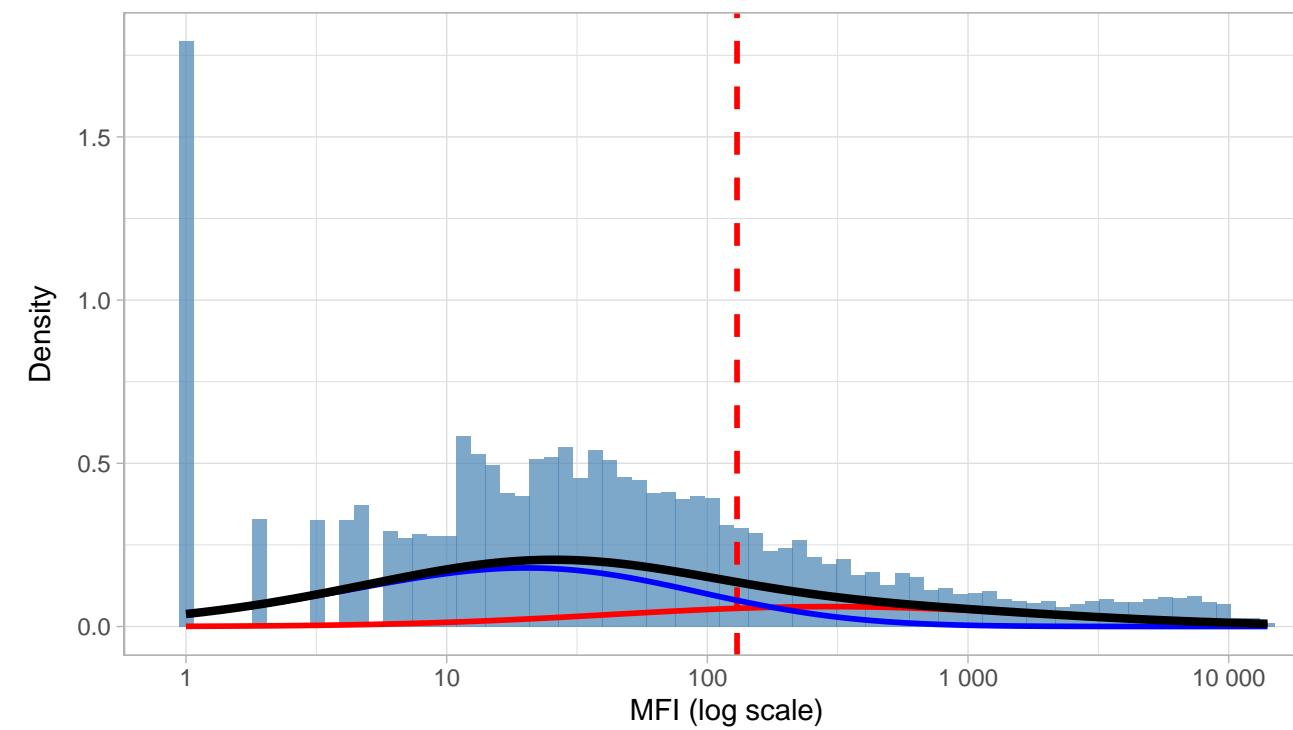
PC1 components not available

Diagnostics: hp_urea

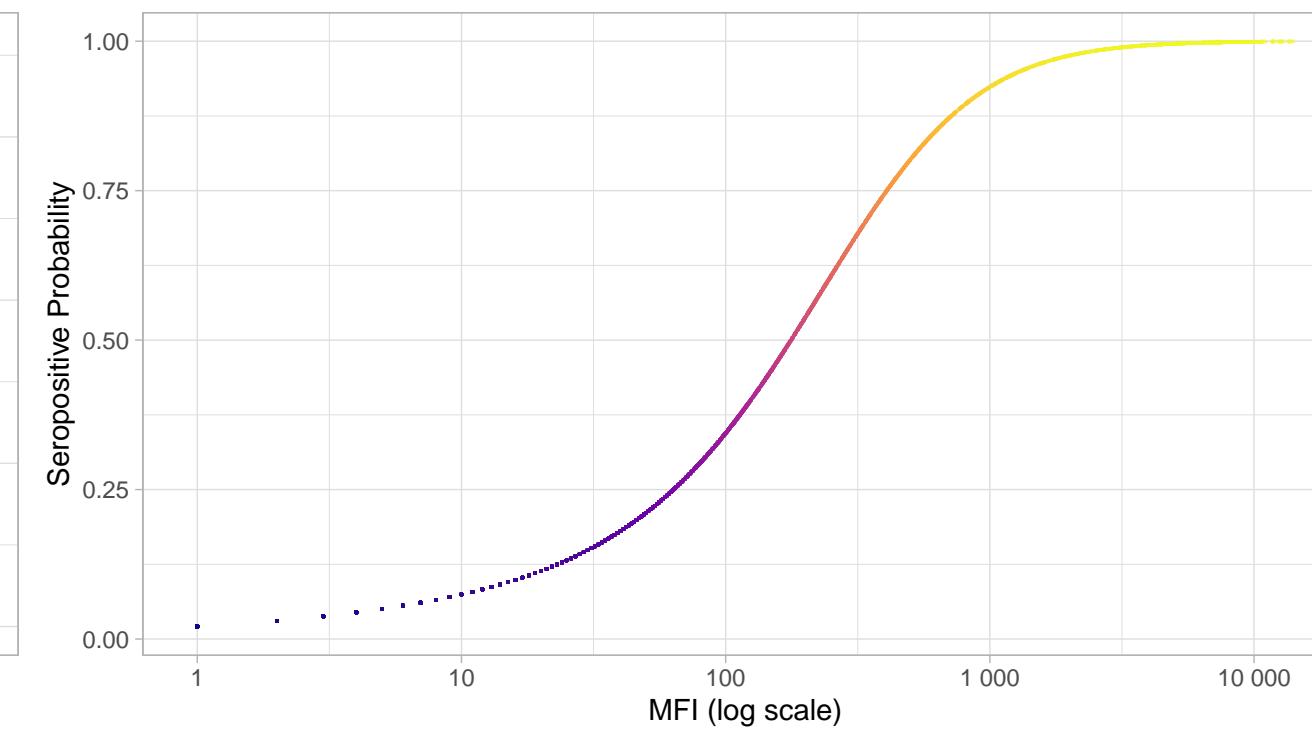
N=9424 | >0.95=689 | <0.05=1466 | Ambig=7269

Original MFI Distribution: hp_urea

Hard cutoff threshold = 130

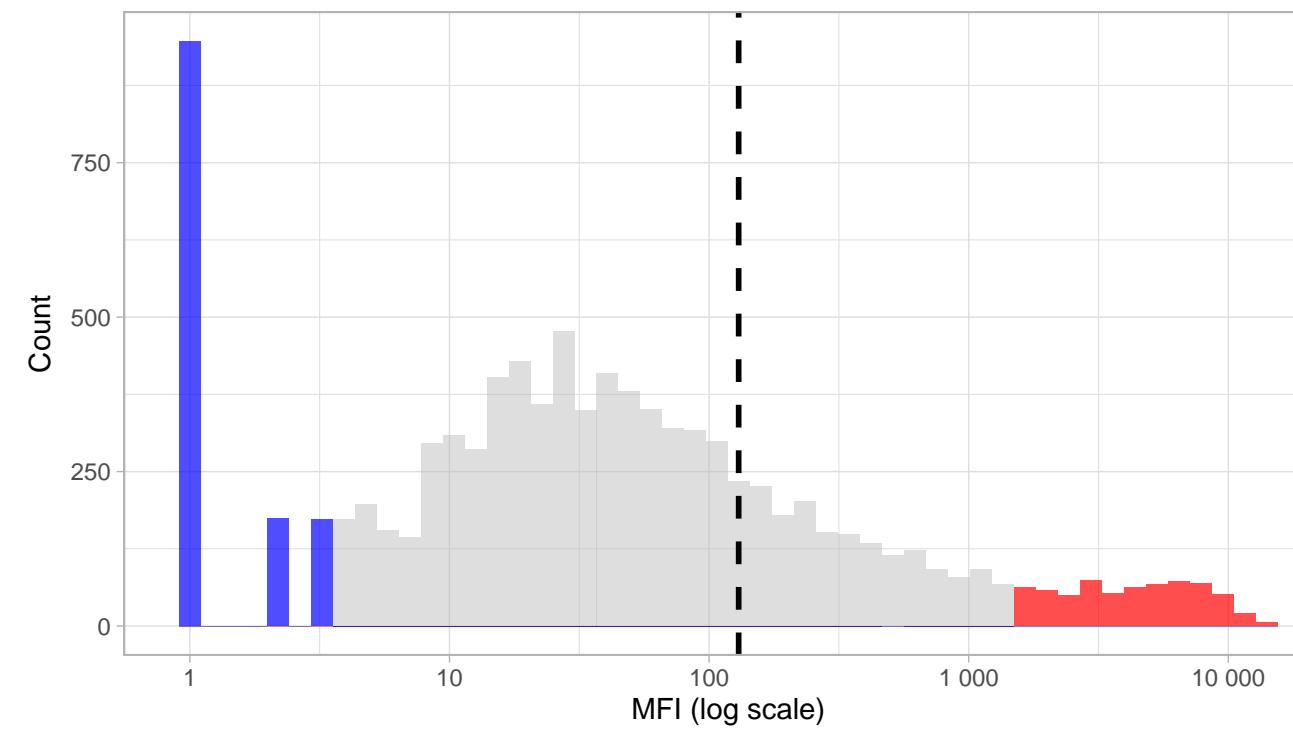


IgG vs Seropositive Probability: hp_urea



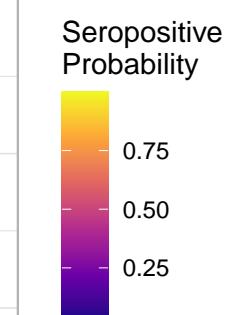
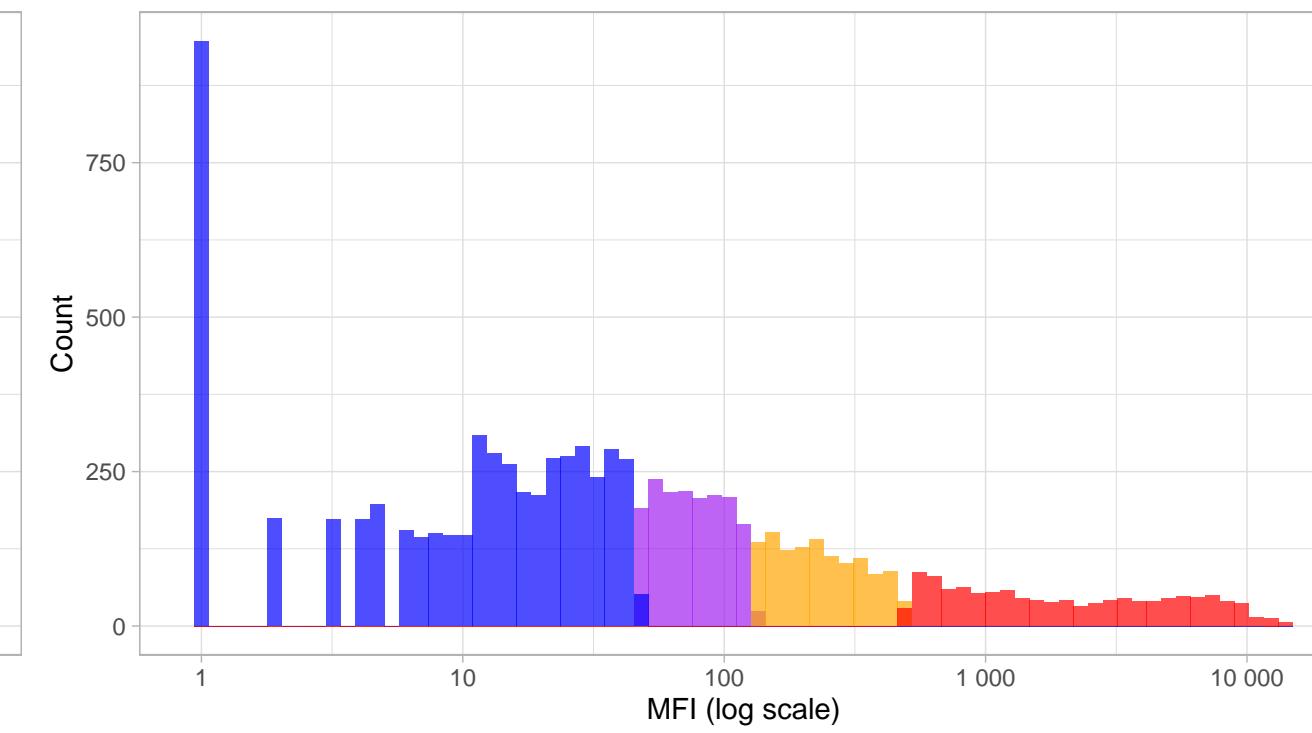
High-Confidence Seropositive Distribution: hp_urea

Prob threshold = 0.96

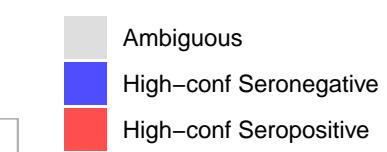


Phenotype Distribution by Classification: hp_urea

Comparing hard vs soft classifications

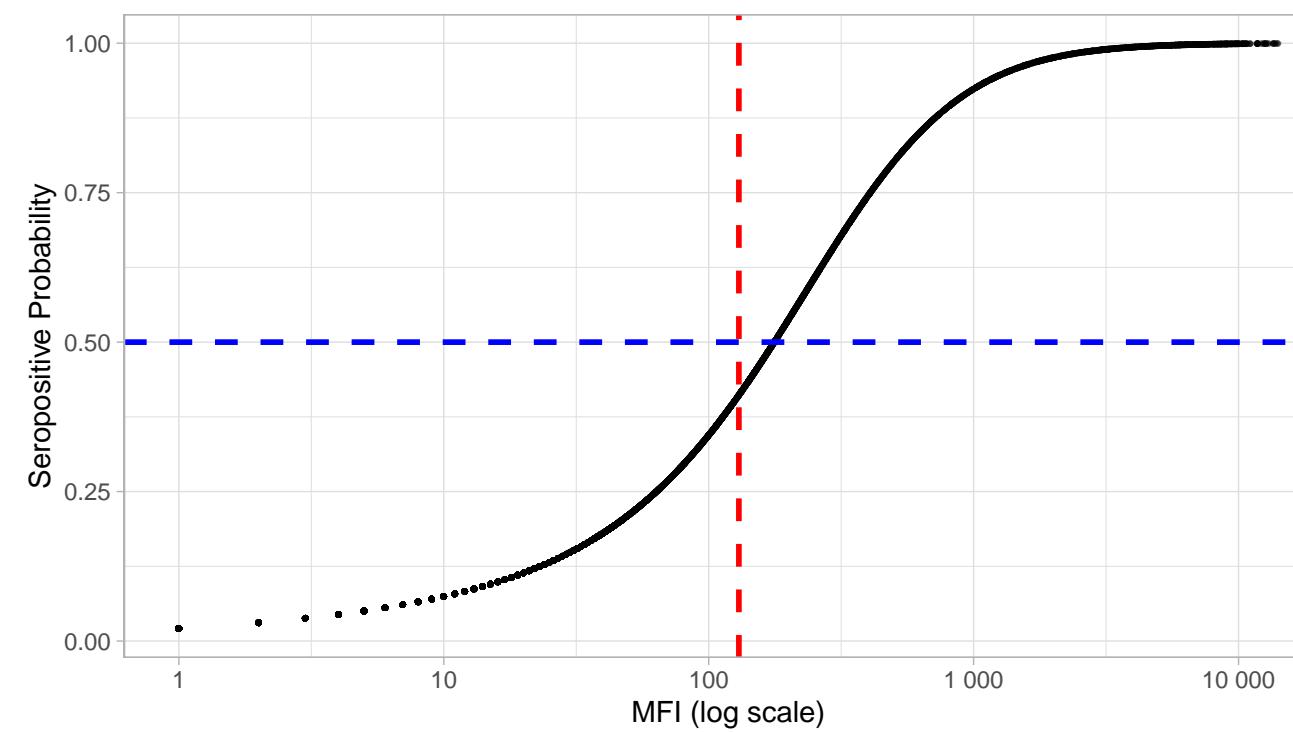


Classification



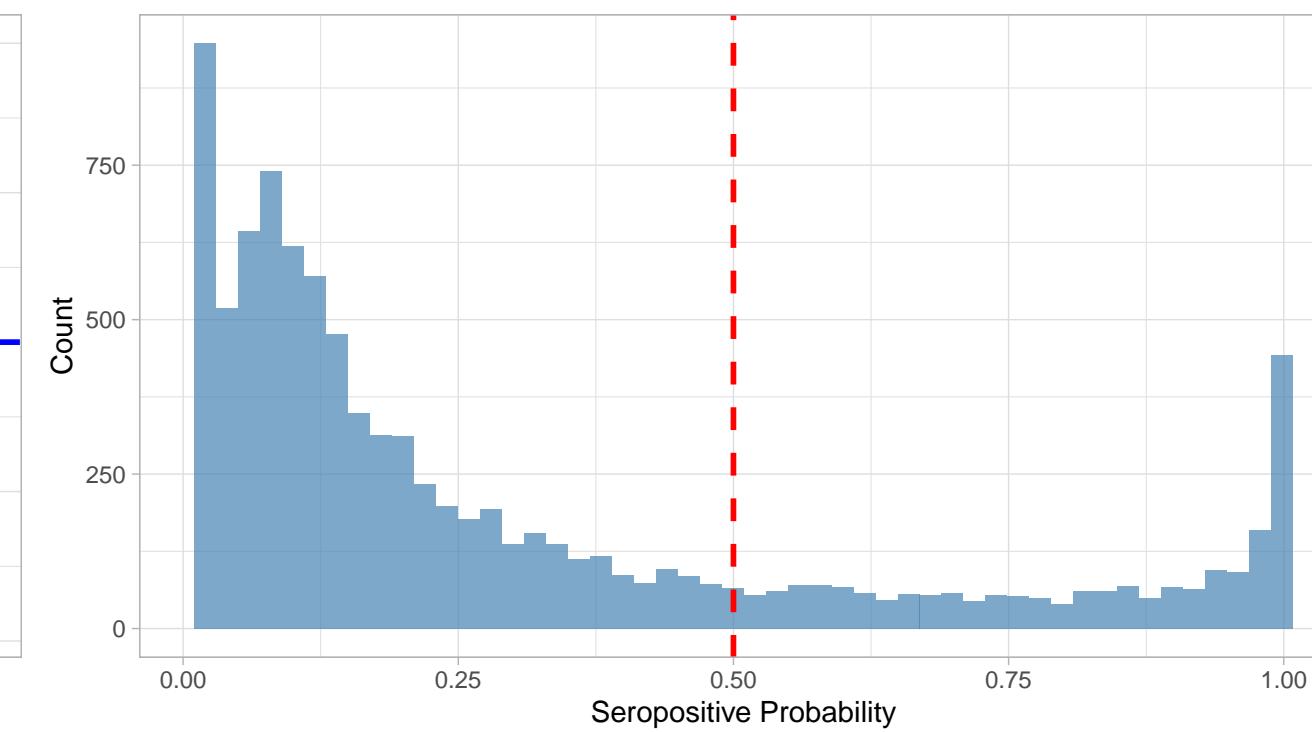
IgG Level vs Seropositive Probability: hp_urea

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



Distribution of Seropositive Probabilities: hp_urea

Red line = 50% threshold

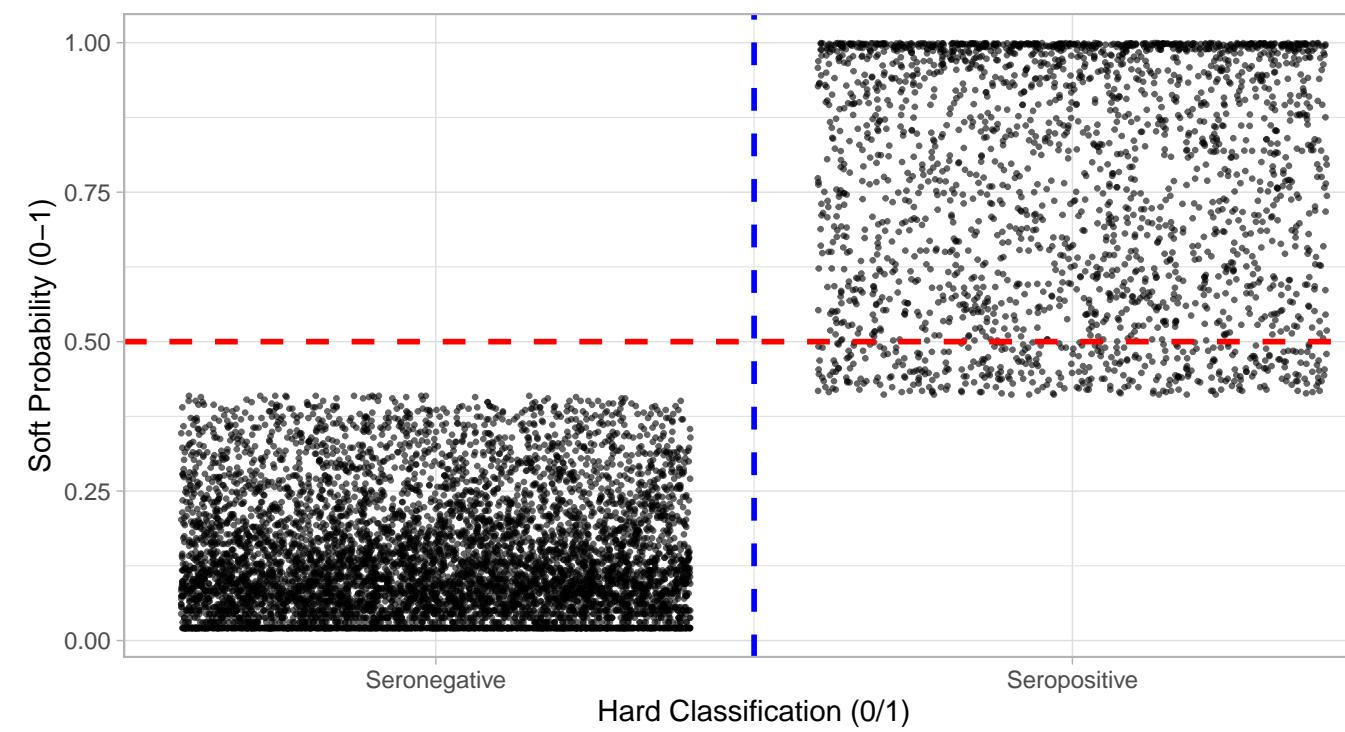


Classification



Hard vs Soft Classification: hp_urea

Red line = 50% soft threshold, Blue line = hard threshold



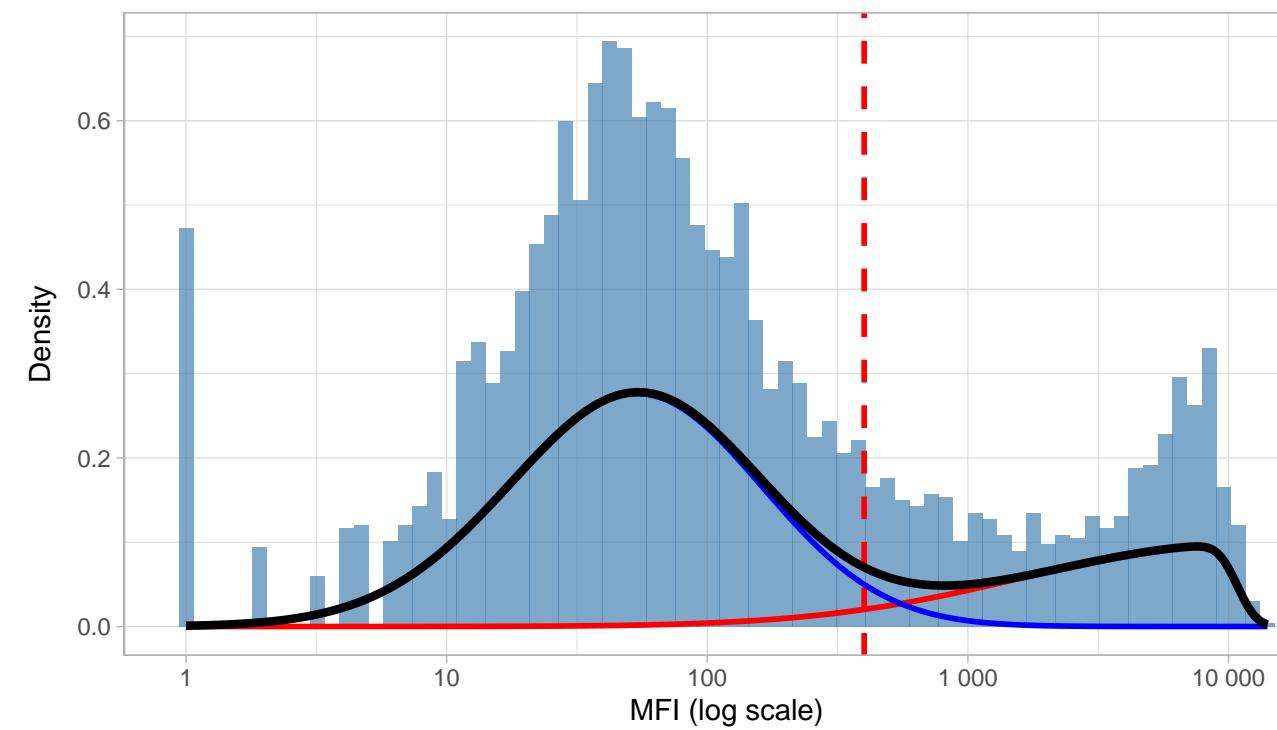
PC1 components not available

Diagnostics: hp_caga

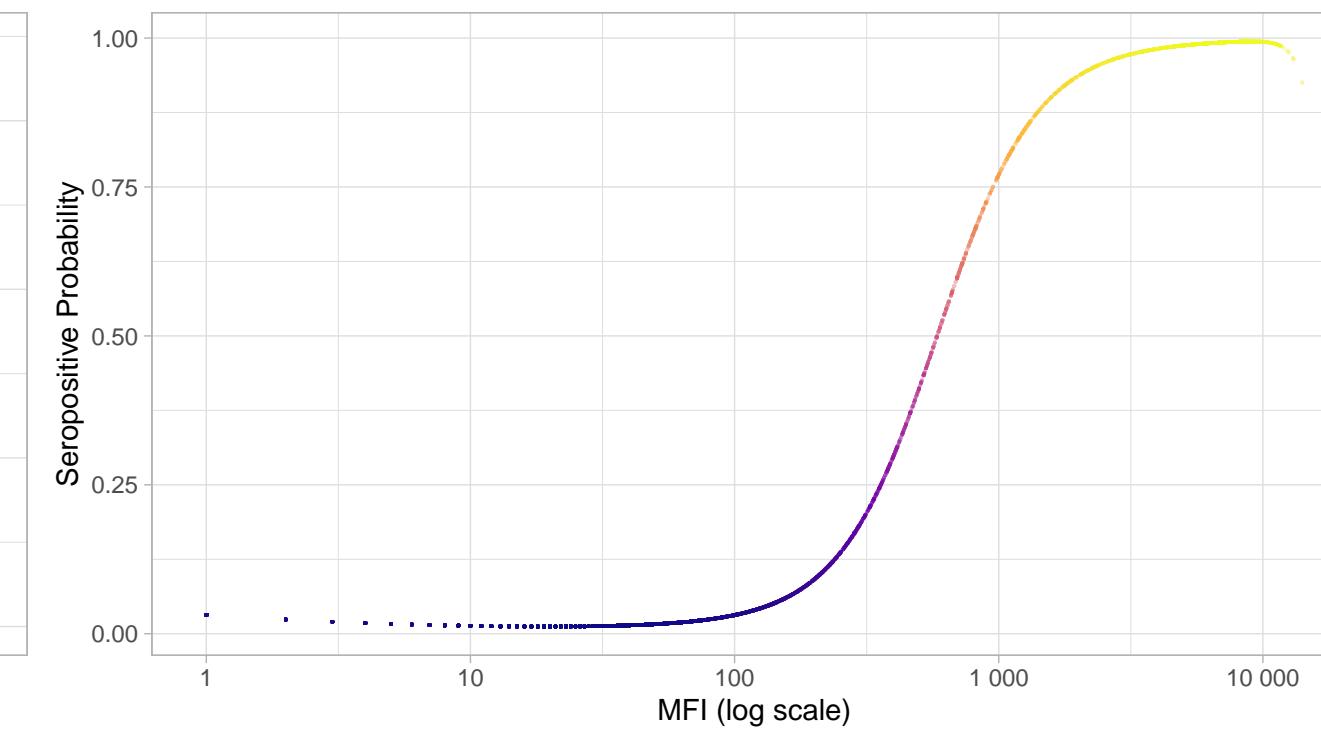
N=4754 | >0.95=631 | <0.05=3038 | Ambig=1085

Original MFI Distribution: hp_caga

Hard cutoff threshold = 400

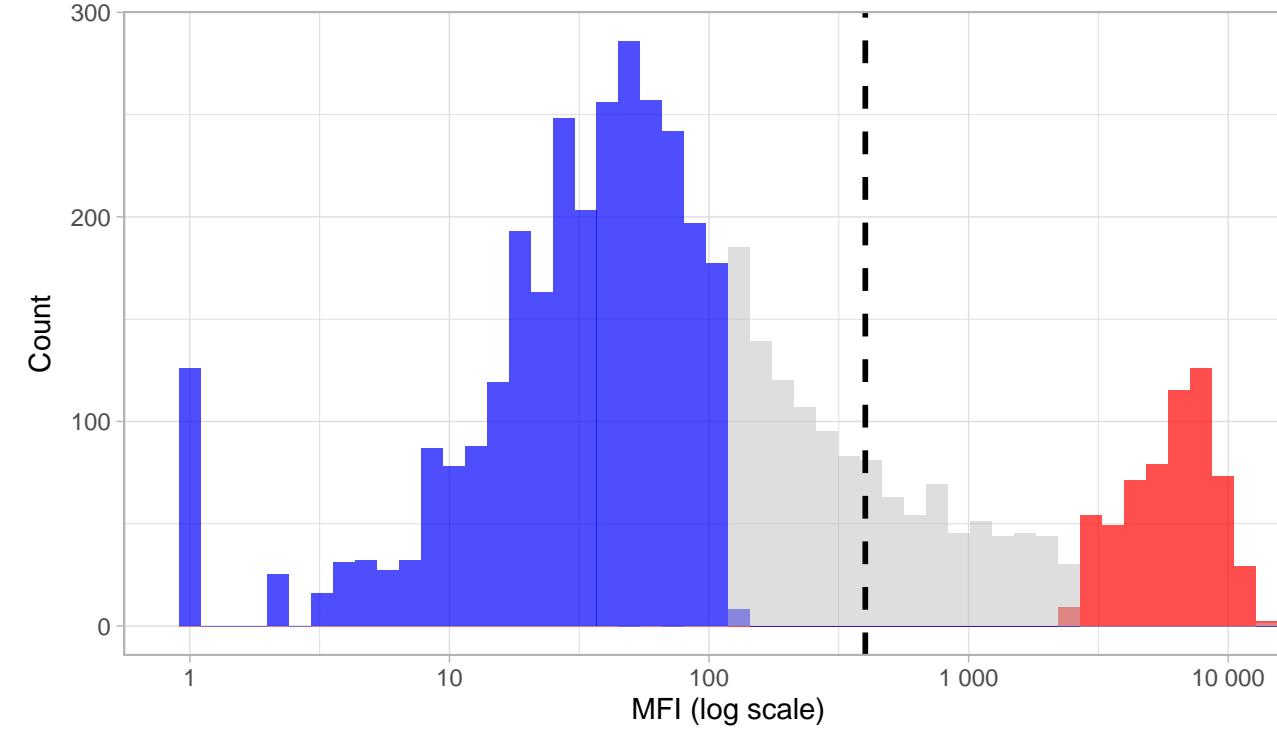


IgG vs Seropositive Probability: hp_caga



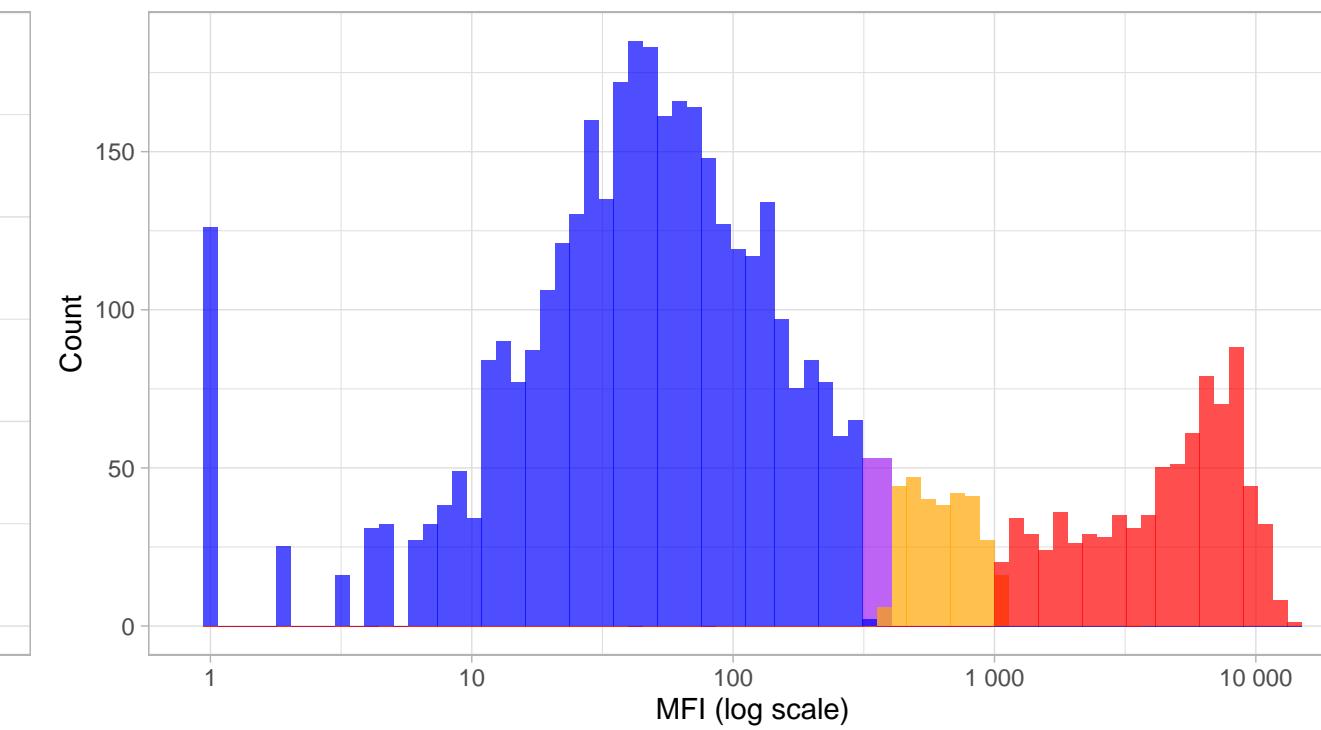
High-Confidence Seropositive Distribution: hp_caga

Prob threshold = 0.96



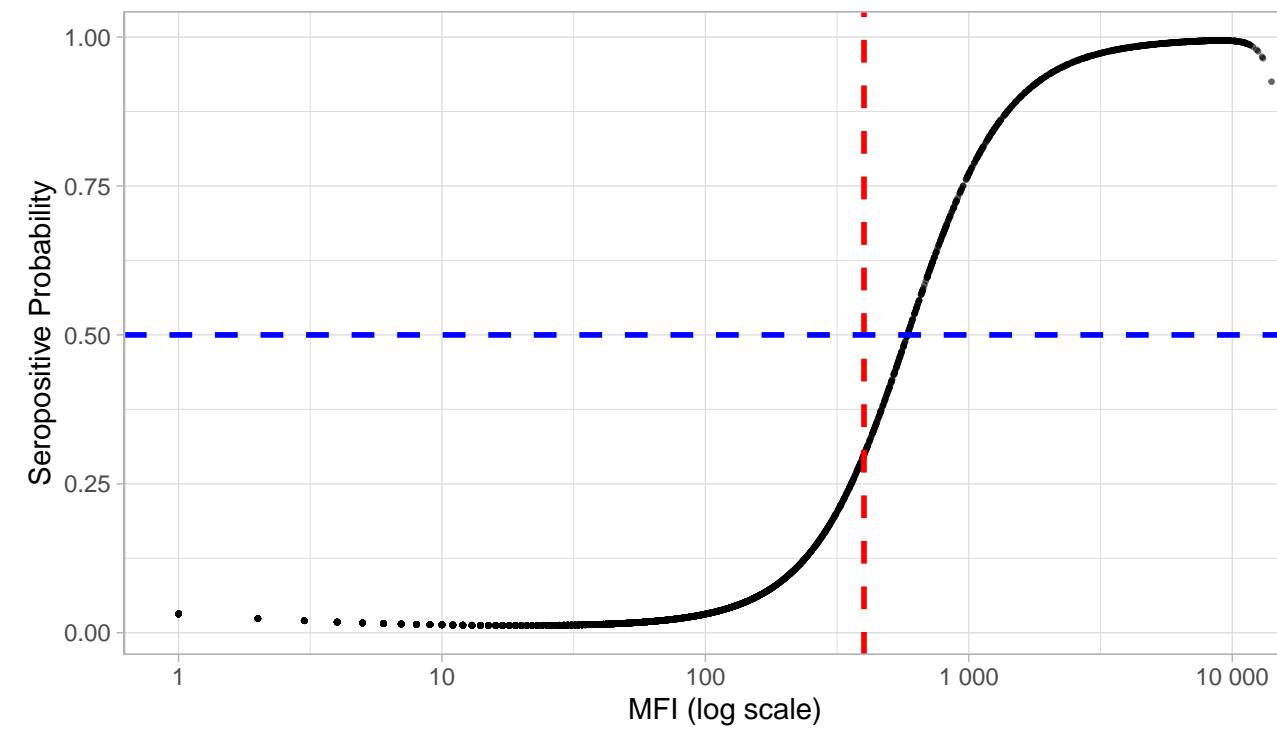
Phenotype Distribution by Classification: hp_caga

Comparing hard vs soft classifications



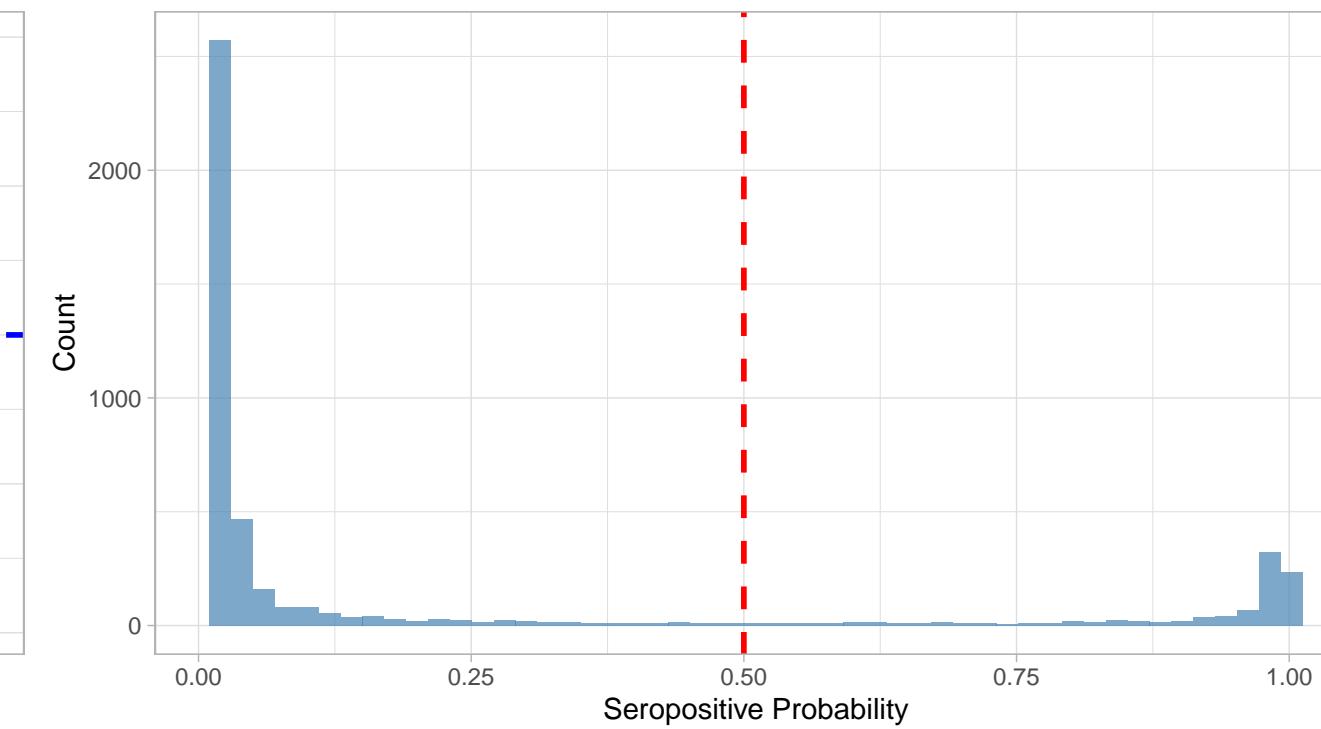
IgG Level vs Seropositive Probability: hp_caga

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



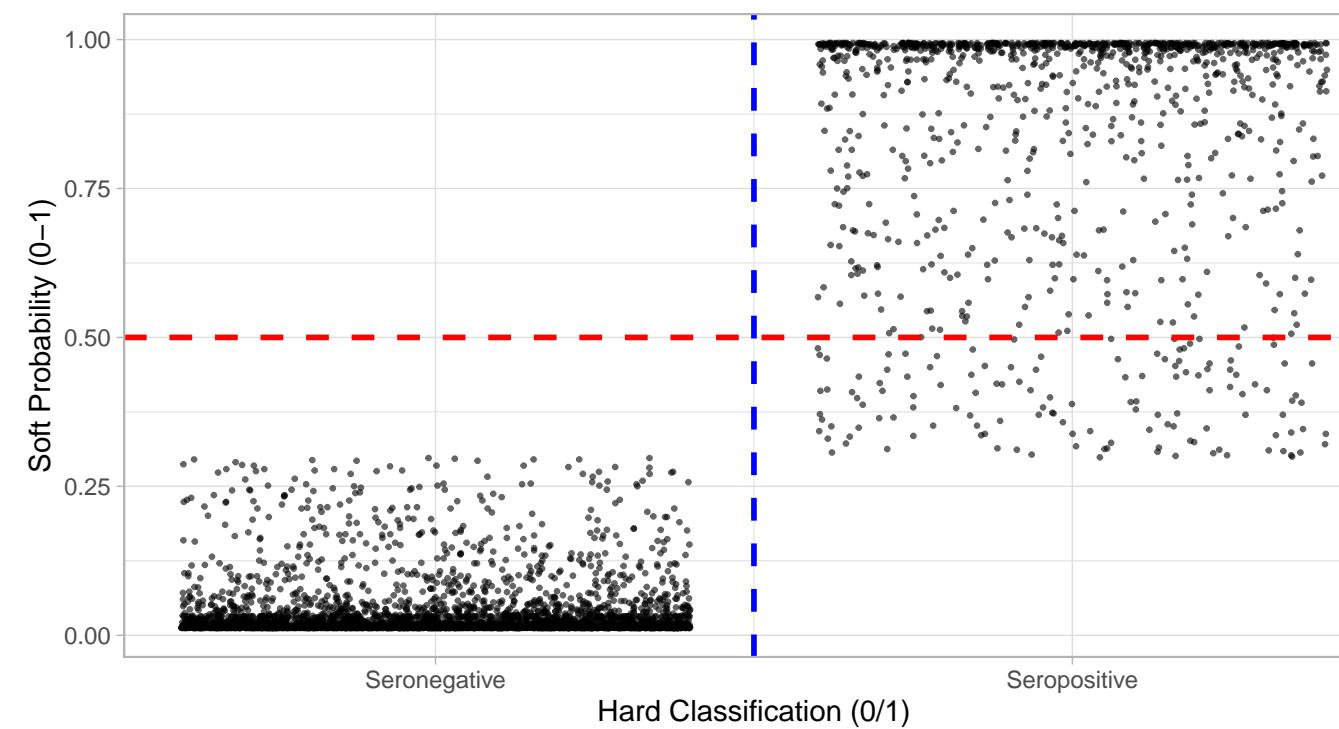
Distribution of Seropositive Probabilities: hp_caga

Red line = 50% threshold



Hard vs Soft Classification: hp_caga

Red line = 50% soft threshold, Blue line = hard threshold



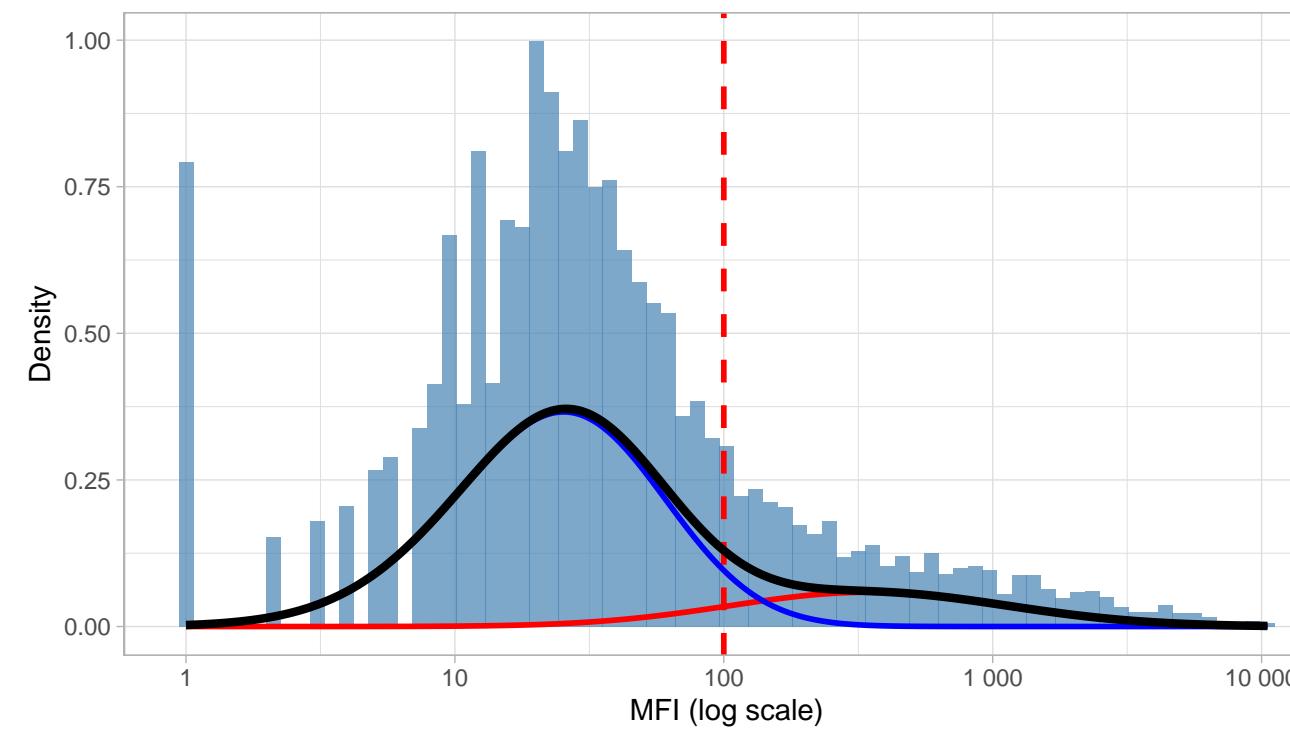
PC1 components not available

Diagnostics: hp_vaca

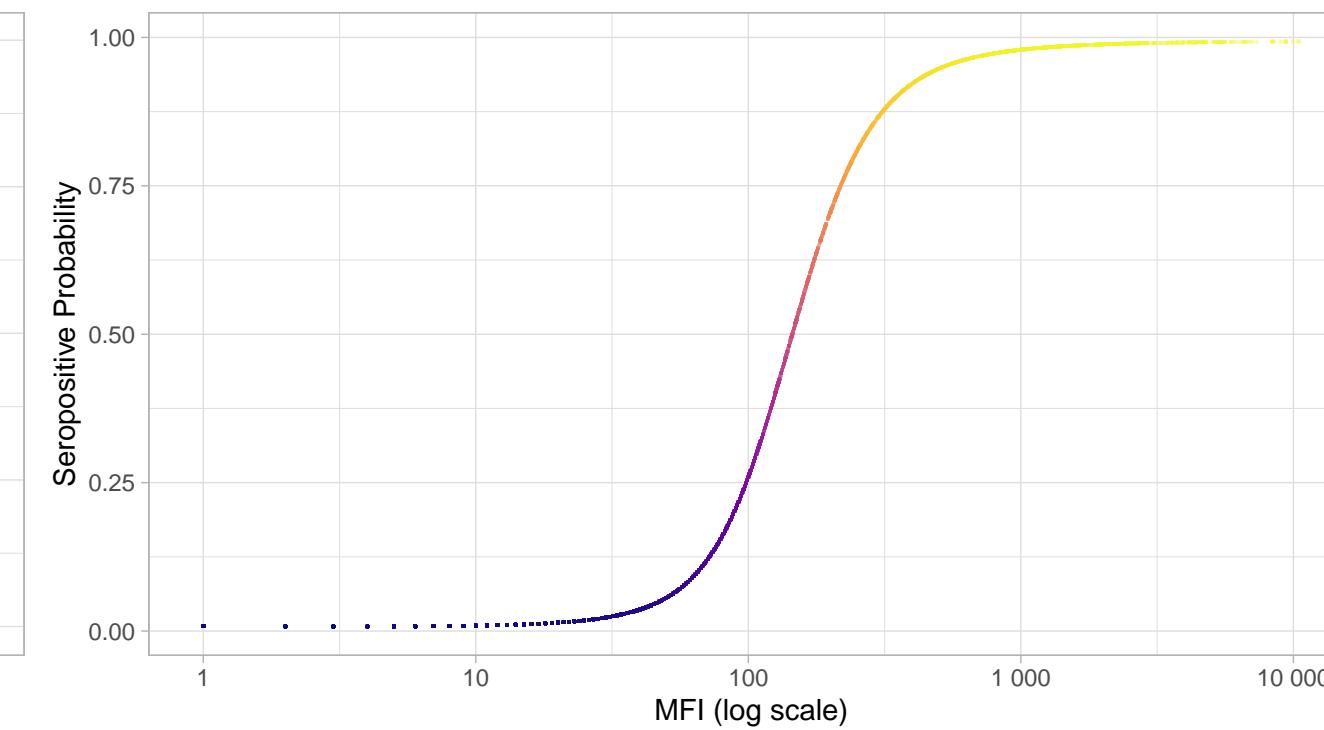
N=9424 | >0.95=659 | <0.05=6252 | Ambig=2513

Original MFI Distribution: hp_vaca

Hard cutoff threshold = 100

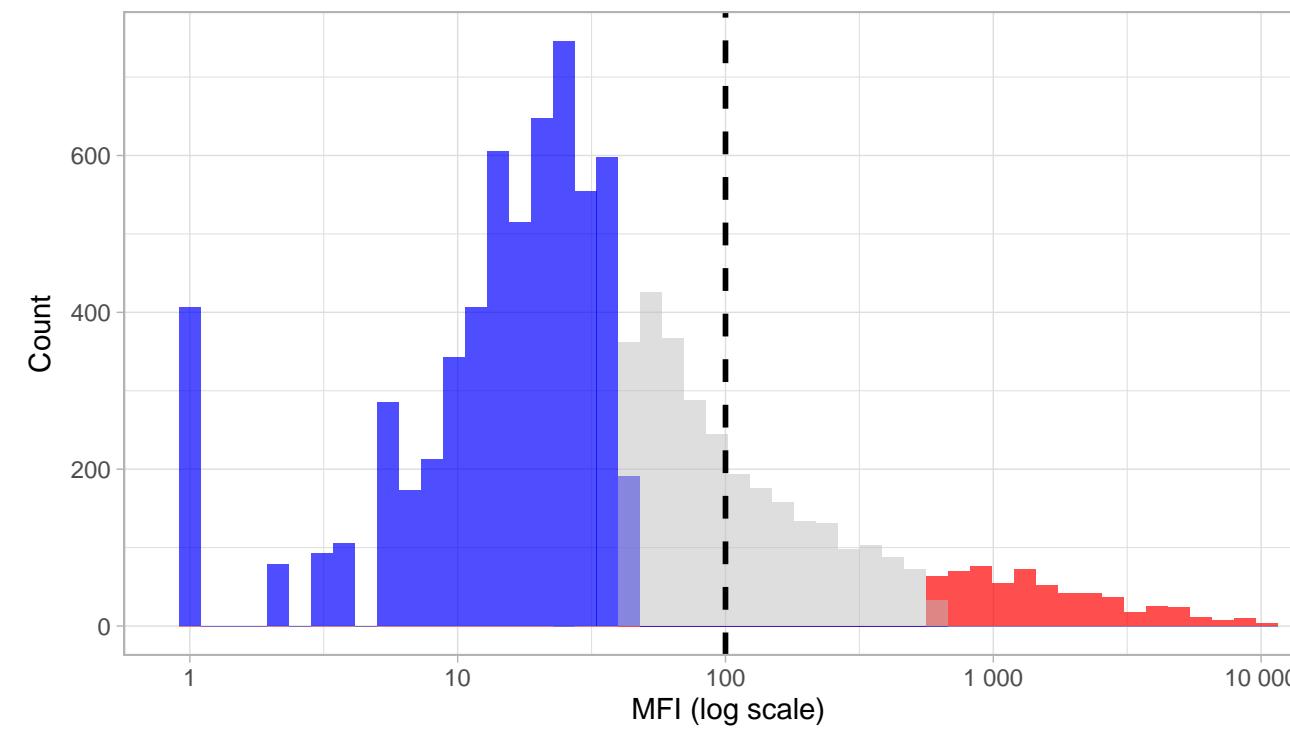


IgG vs Seropositive Probability: hp_vaca



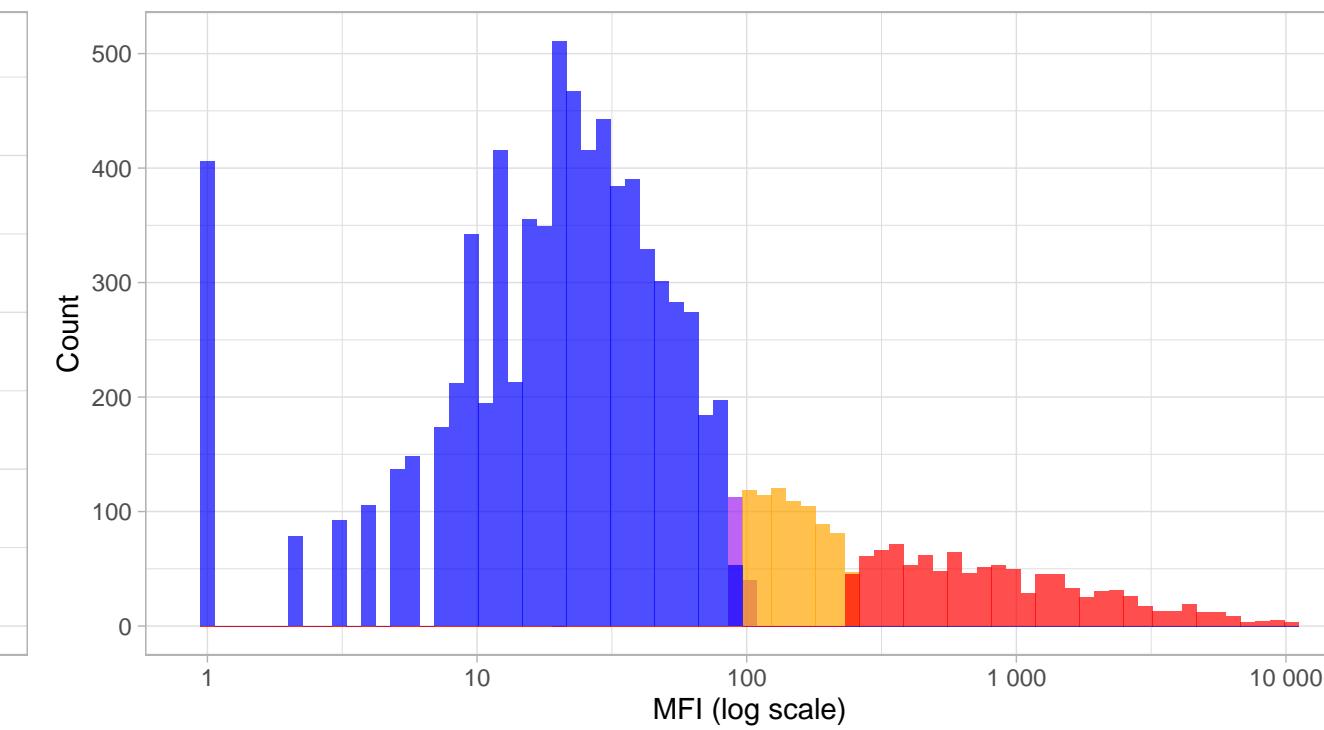
High-Confidence Seropositive Distribution: hp_vaca

Prob threshold = 0.96



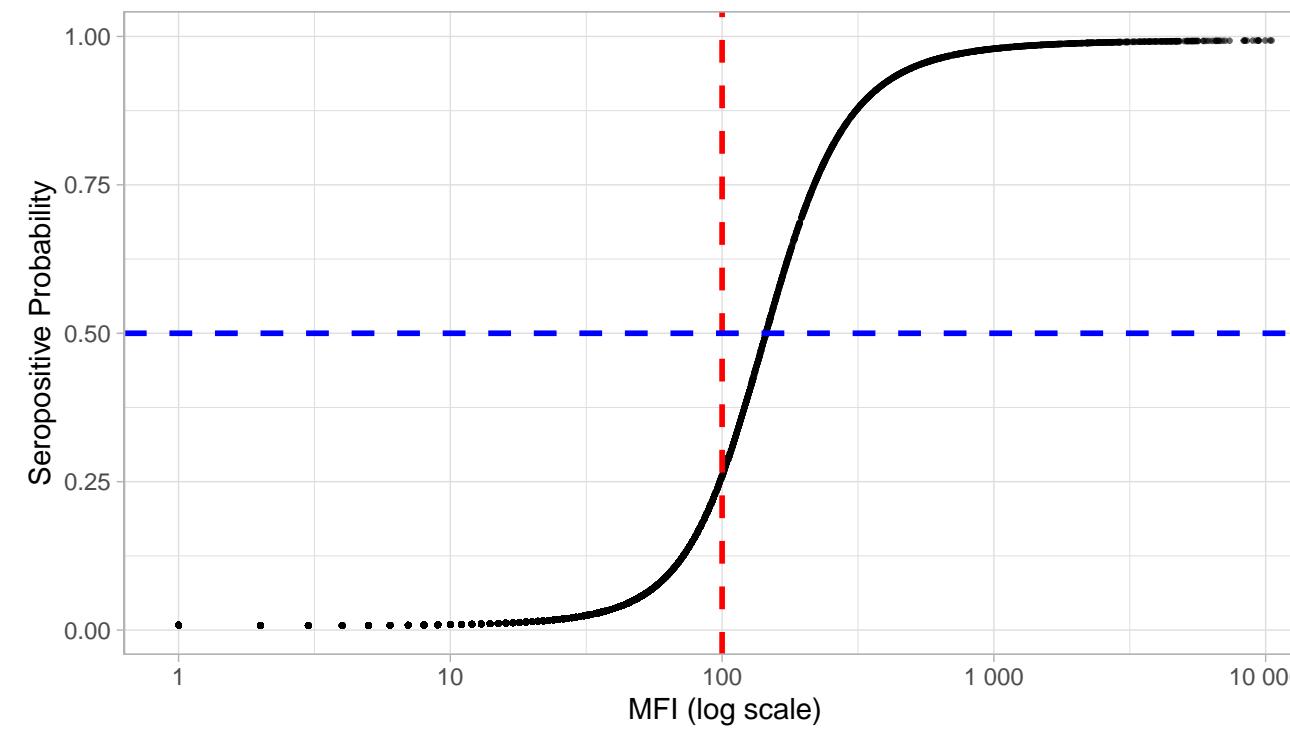
Phenotype Distribution by Classification: hp_vaca

Comparing hard vs soft classifications



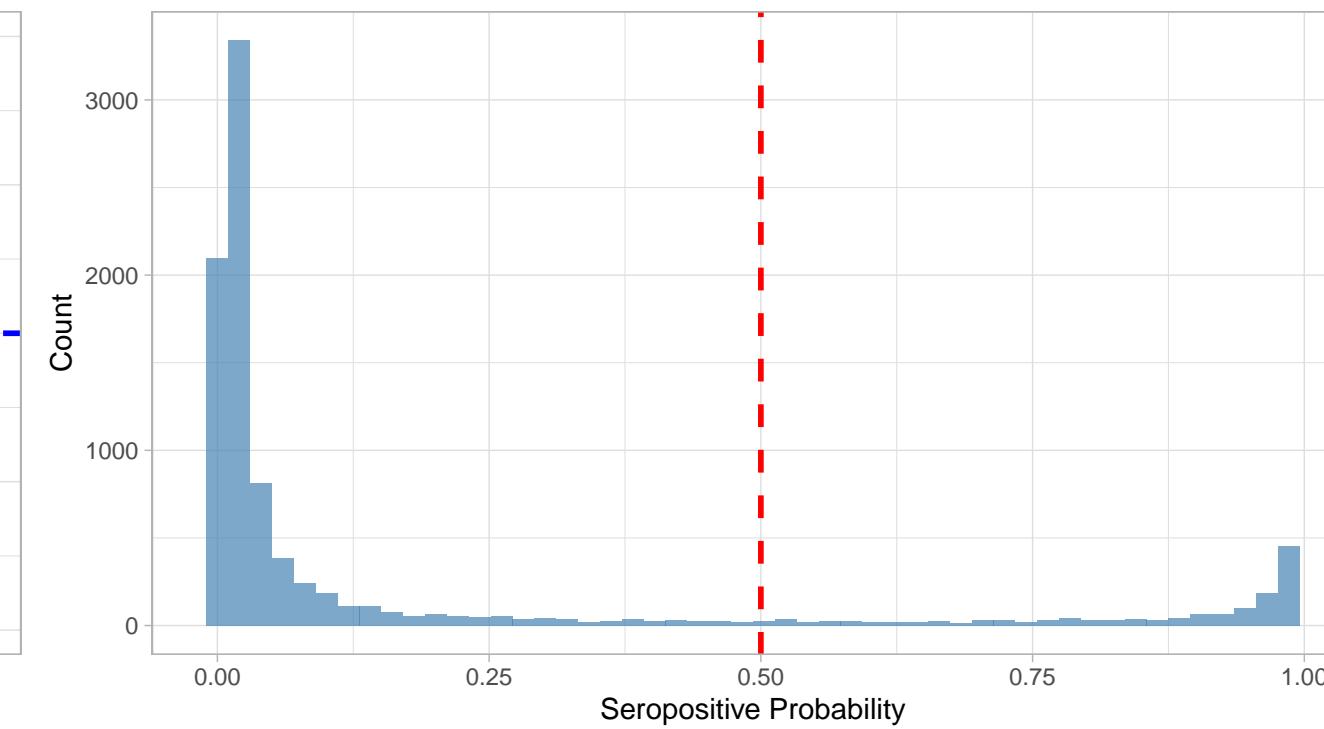
IgG Level vs Seropositive Probability: hp_vaca

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



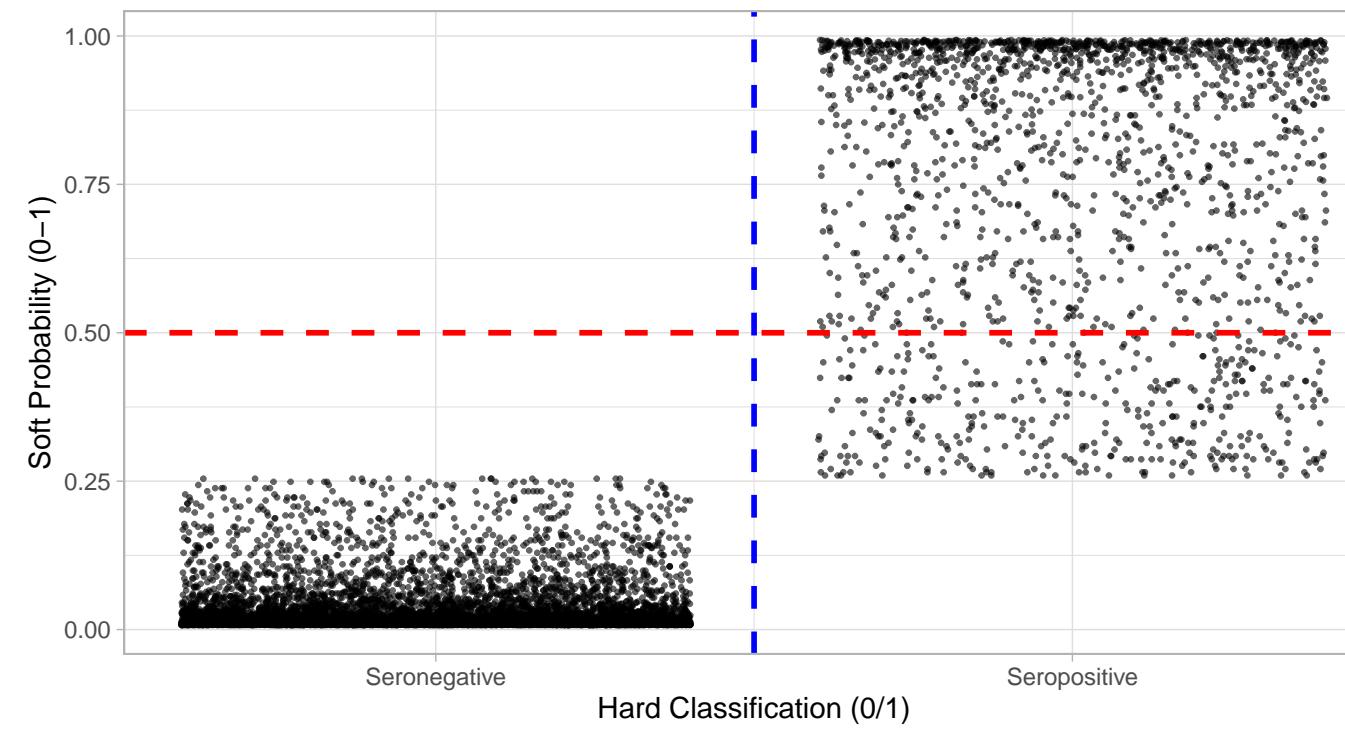
Distribution of Seropositive Probabilities: hp_vaca

Red line = 50% threshold



Hard vs Soft Classification: hp_vaca

Red line = 50% soft threshold, Blue line = hard threshold



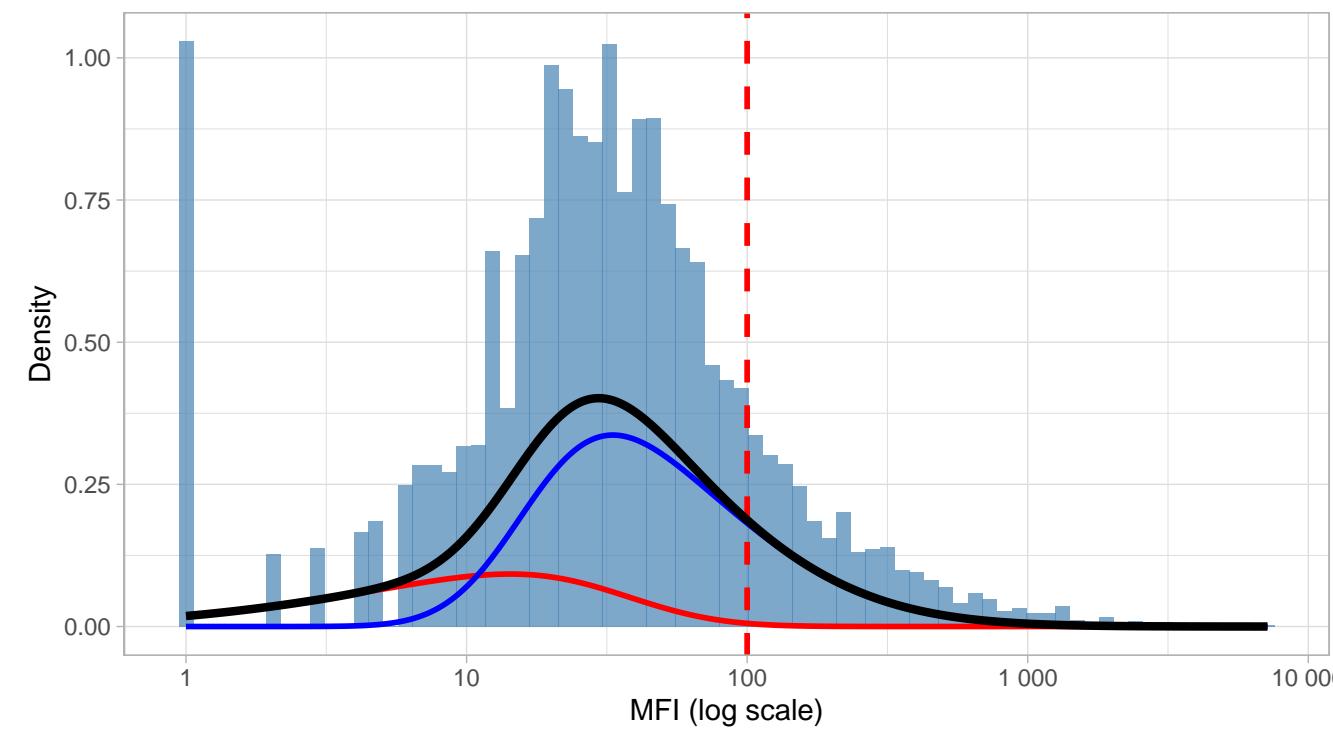
PC1 components not available

Diagnostics: toxo_p22

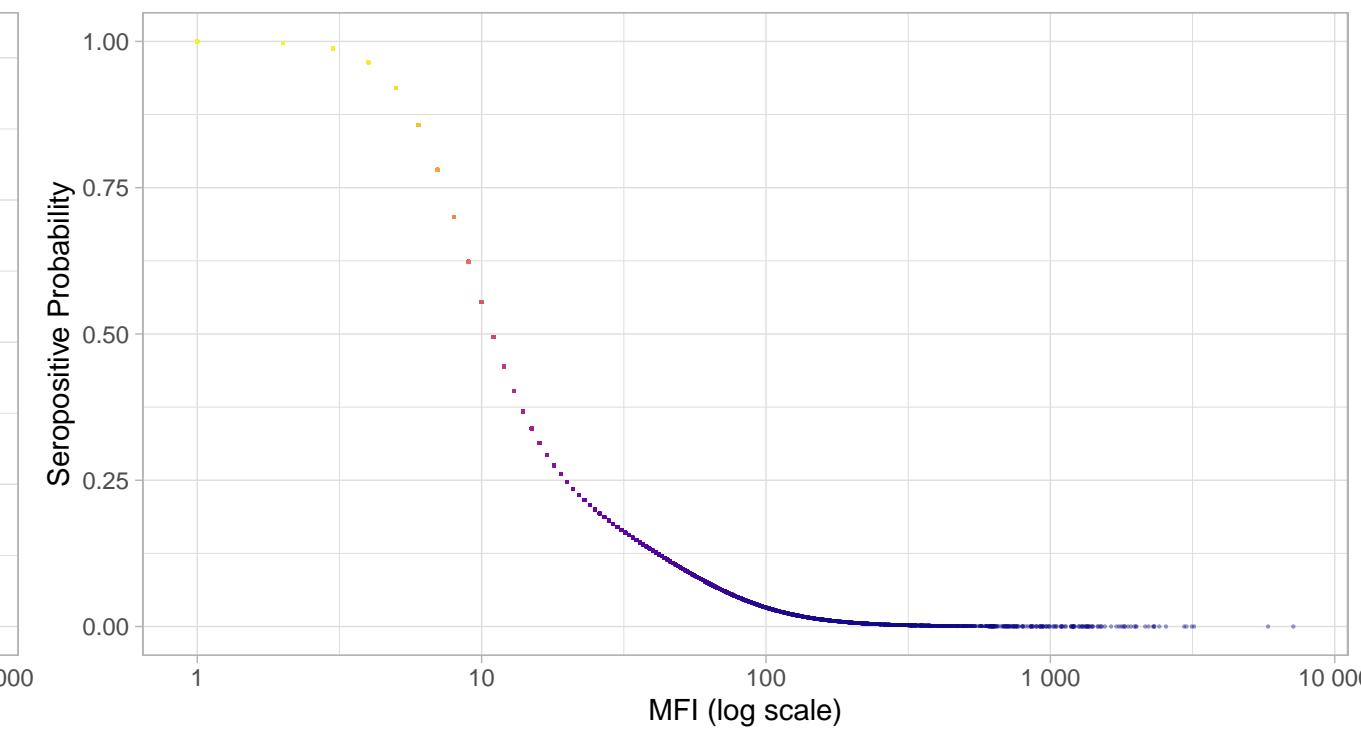
N=9424 | >0.95=718 | <0.05=1804 | Ambig=6902

Original MFI Distribution: toxo_p22

Hard cutoff threshold = 100

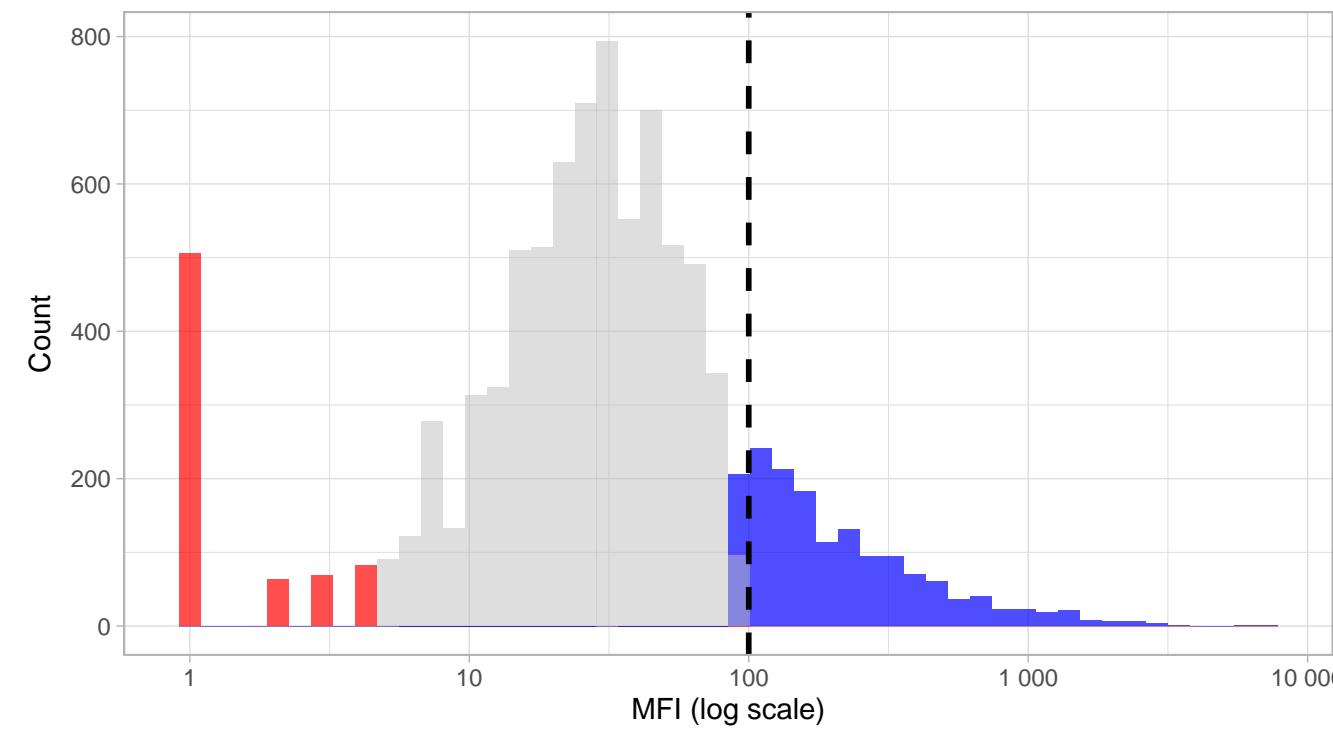


IgG vs Seropositive Probability: toxo_p22



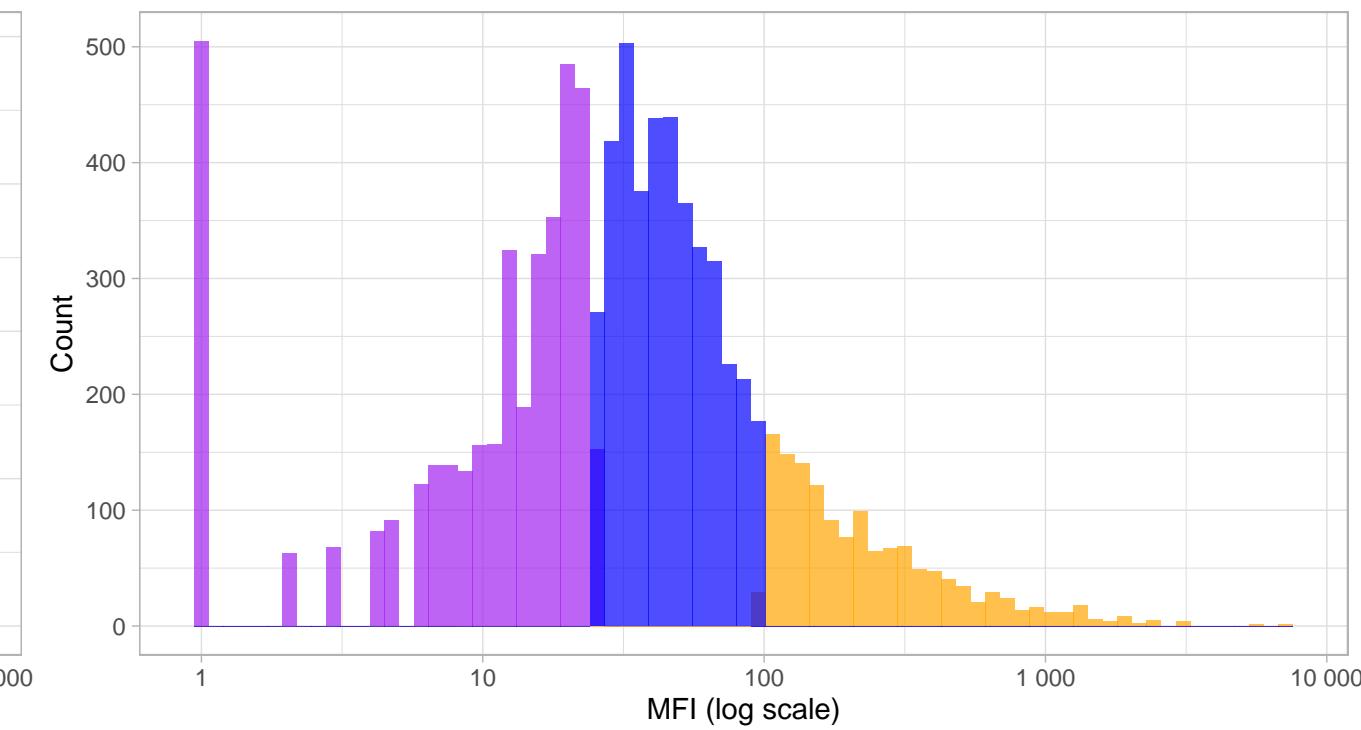
High-Confidence Seropositive Distribution: toxo_p22

Prob threshold = 0.96



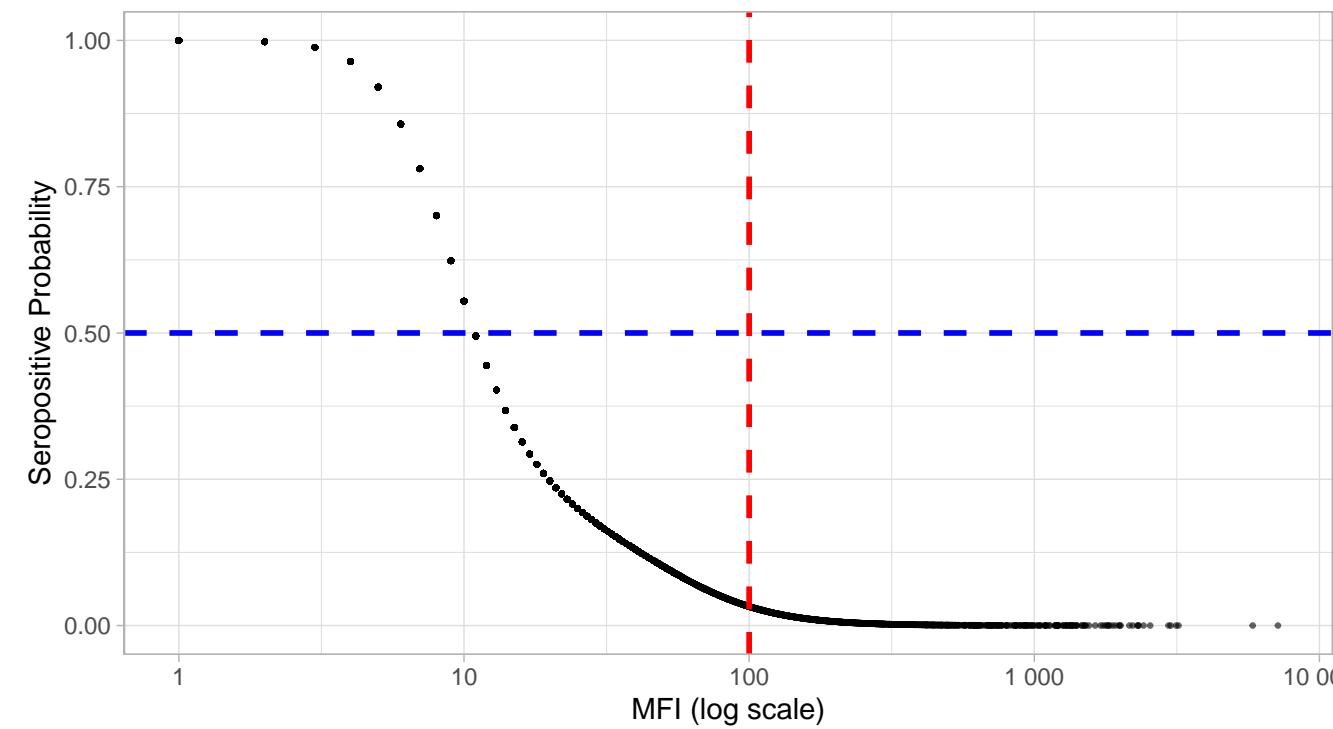
Phenotype Distribution by Classification: toxo_p22

Comparing hard vs soft classifications



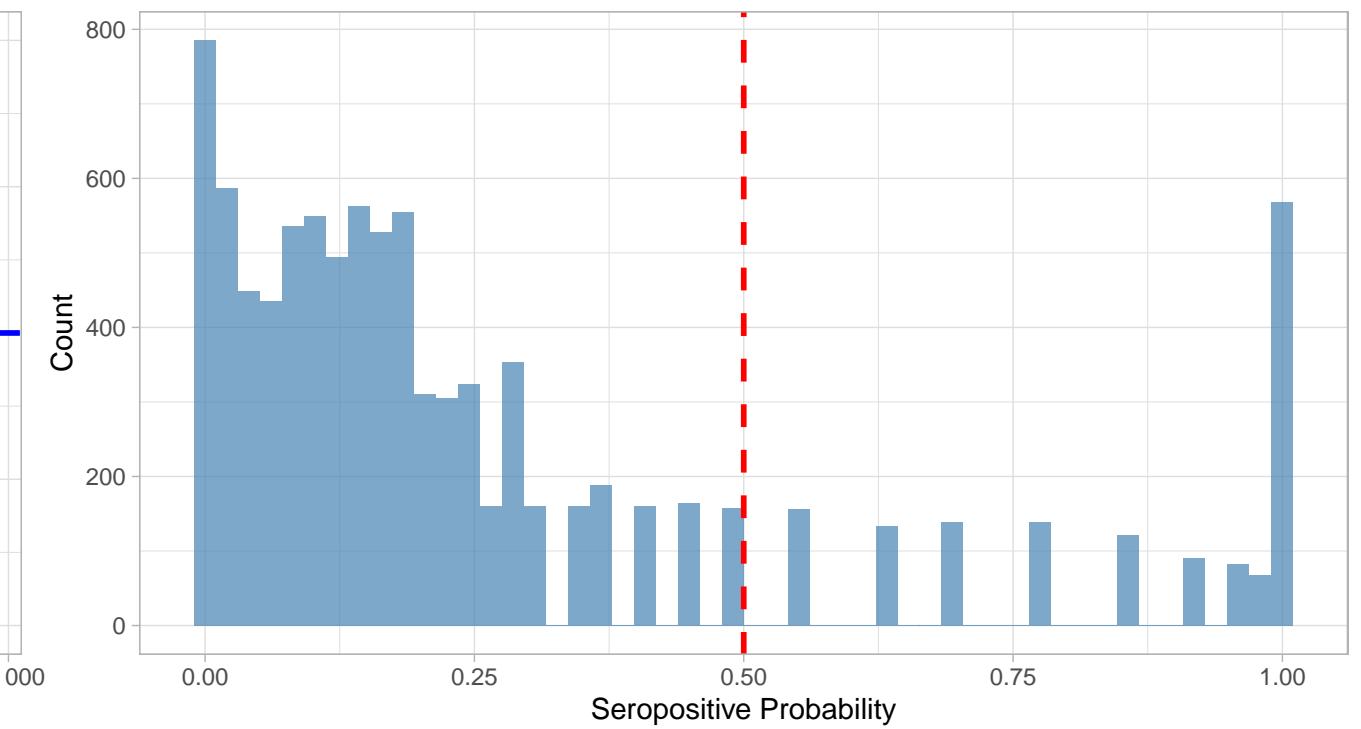
IgG Level vs Seropositive Probability: toxo_p22

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



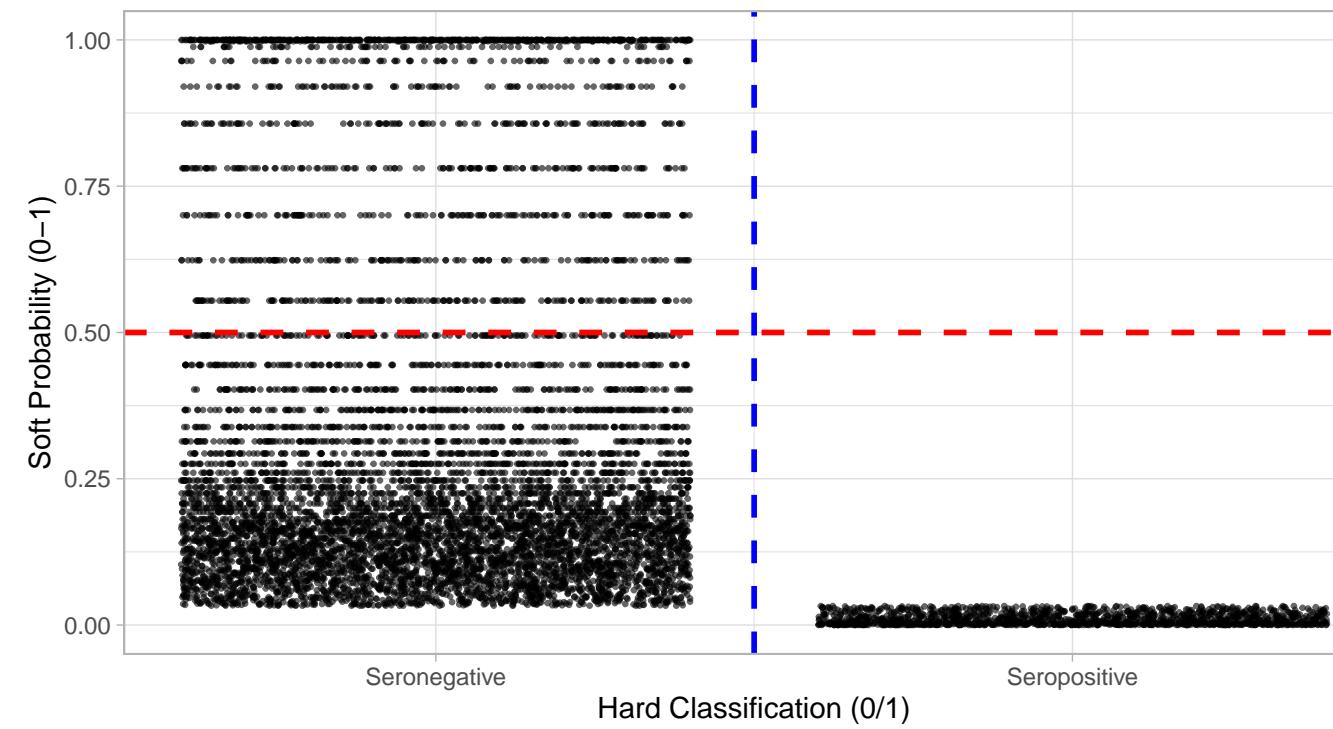
Distribution of Seropositive Probabilities: toxo_p22

Red line = 50% threshold



Hard vs Soft Classification: toxo_p22

Red line = 50% soft threshold, Blue line = hard threshold



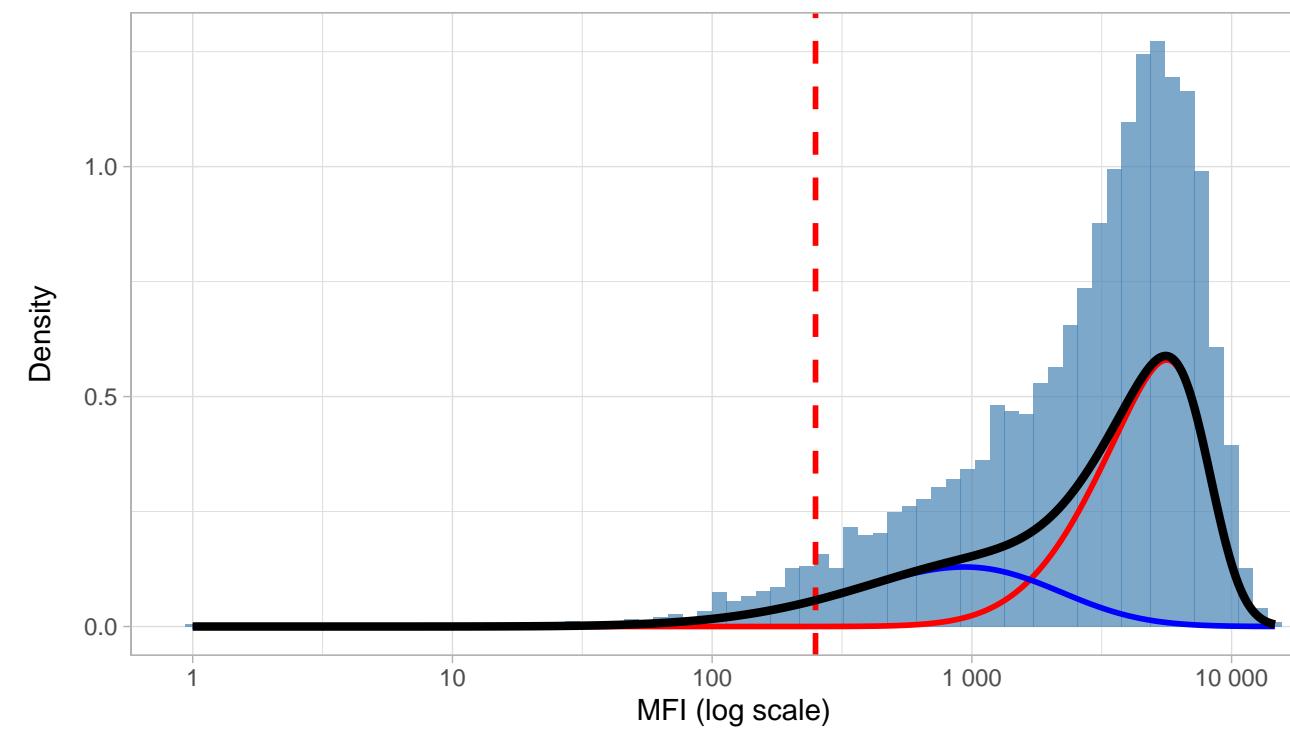
PC1 components not available

Diagnostics: bkv_vp1

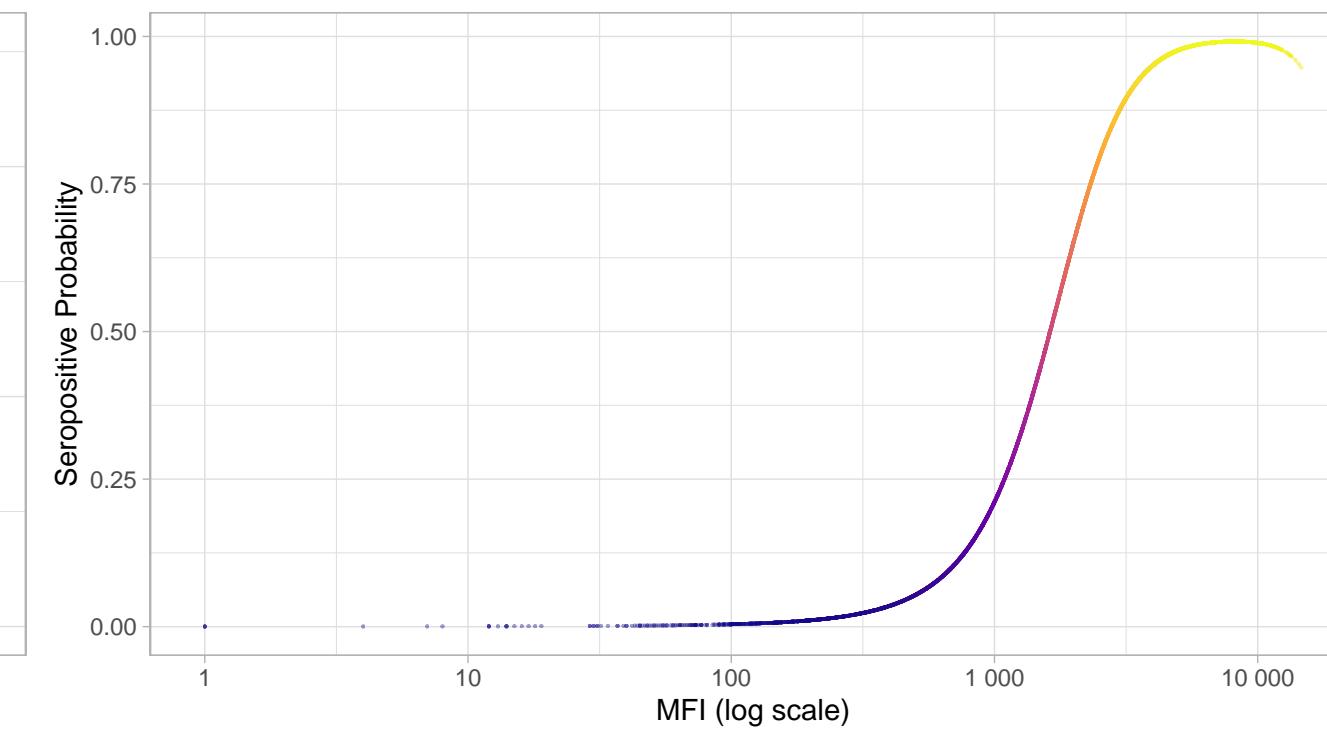
N=9424 | >0.95=4128 | <0.05=932 | Ambig=4364

Original MFI Distribution: bkv_vp1

Hard cutoff threshold = 250

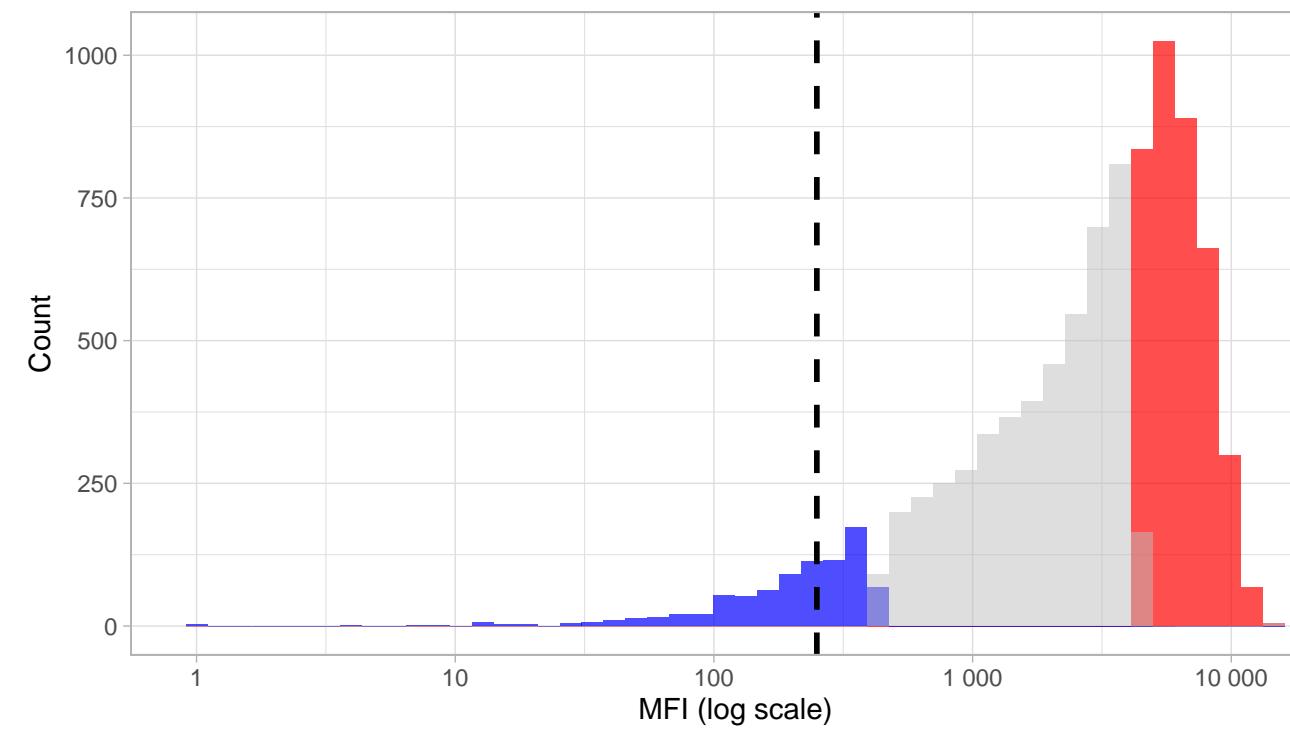


IgG vs Seropositive Probability: bkv_vp1



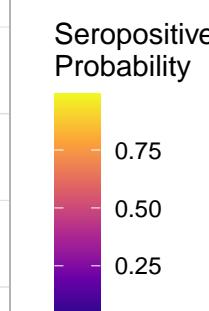
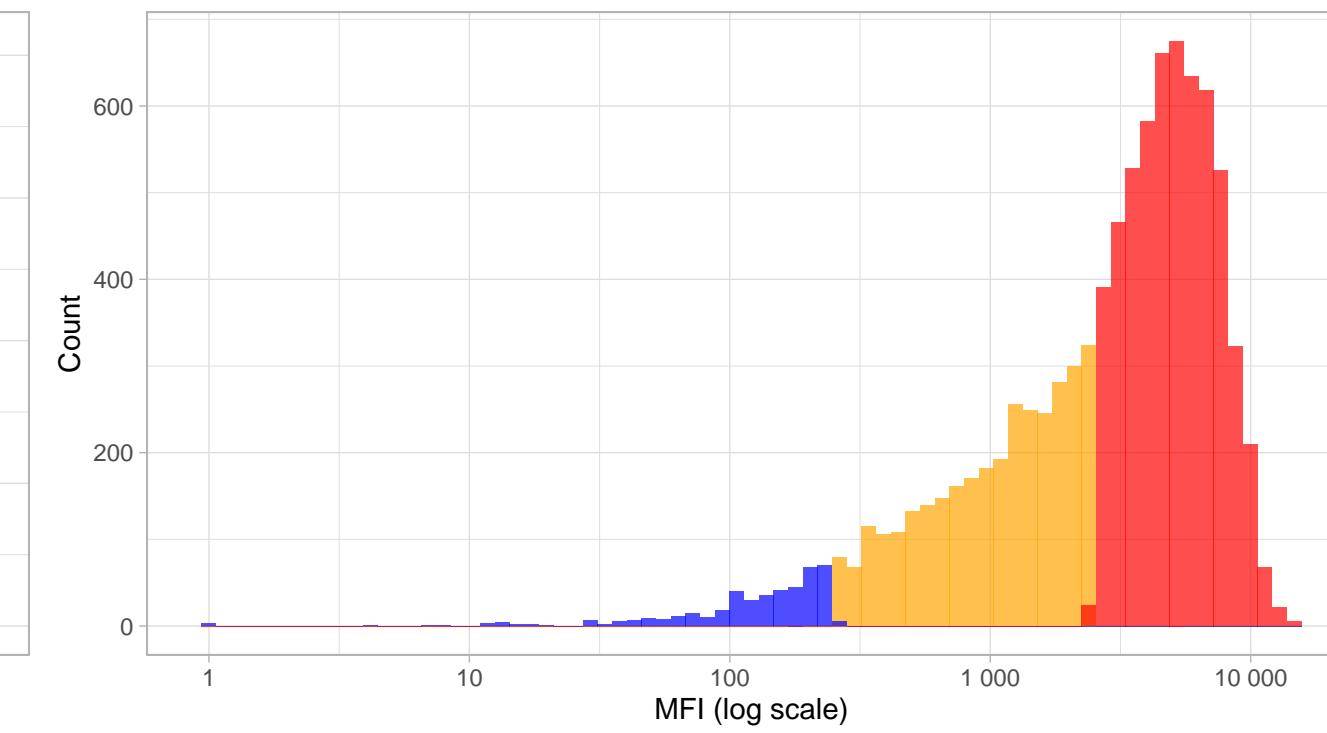
High-Confidence Seropositive Distribution: bkv_vp1

Prob threshold = 0.96

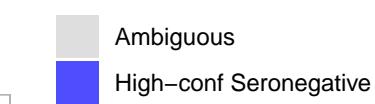


Phenotype Distribution by Classification: bkv_vp1

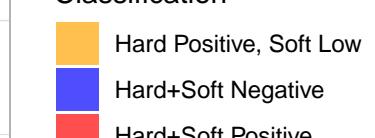
Comparing hard vs soft classifications



Classification

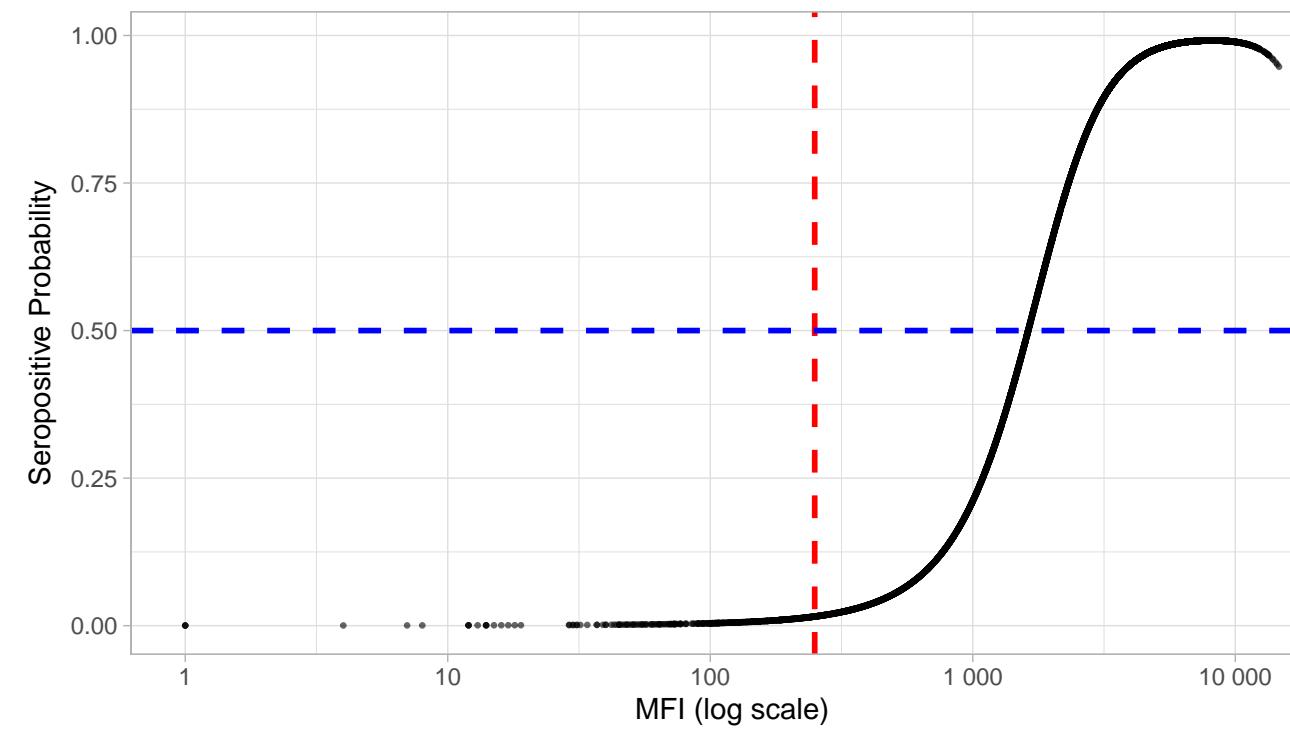


Classification



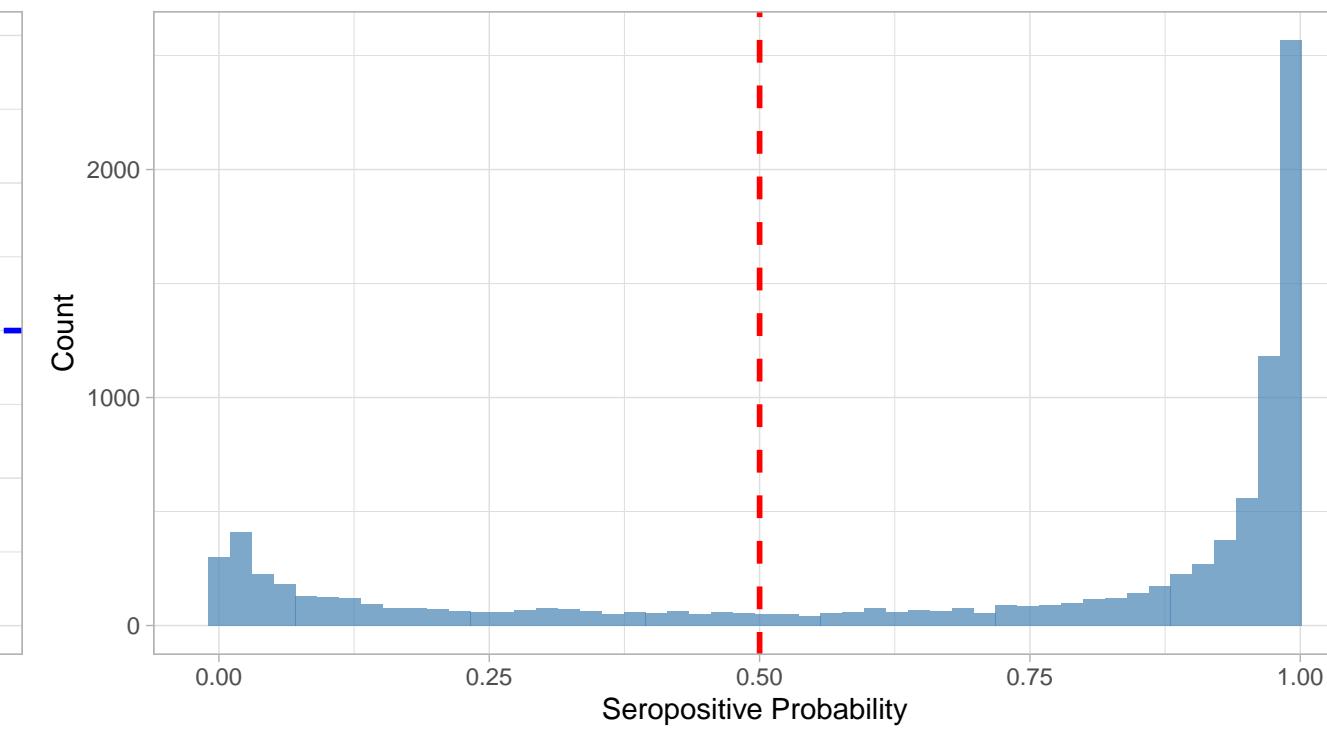
IgG Level vs Seropositive Probability: bkv_vp1

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



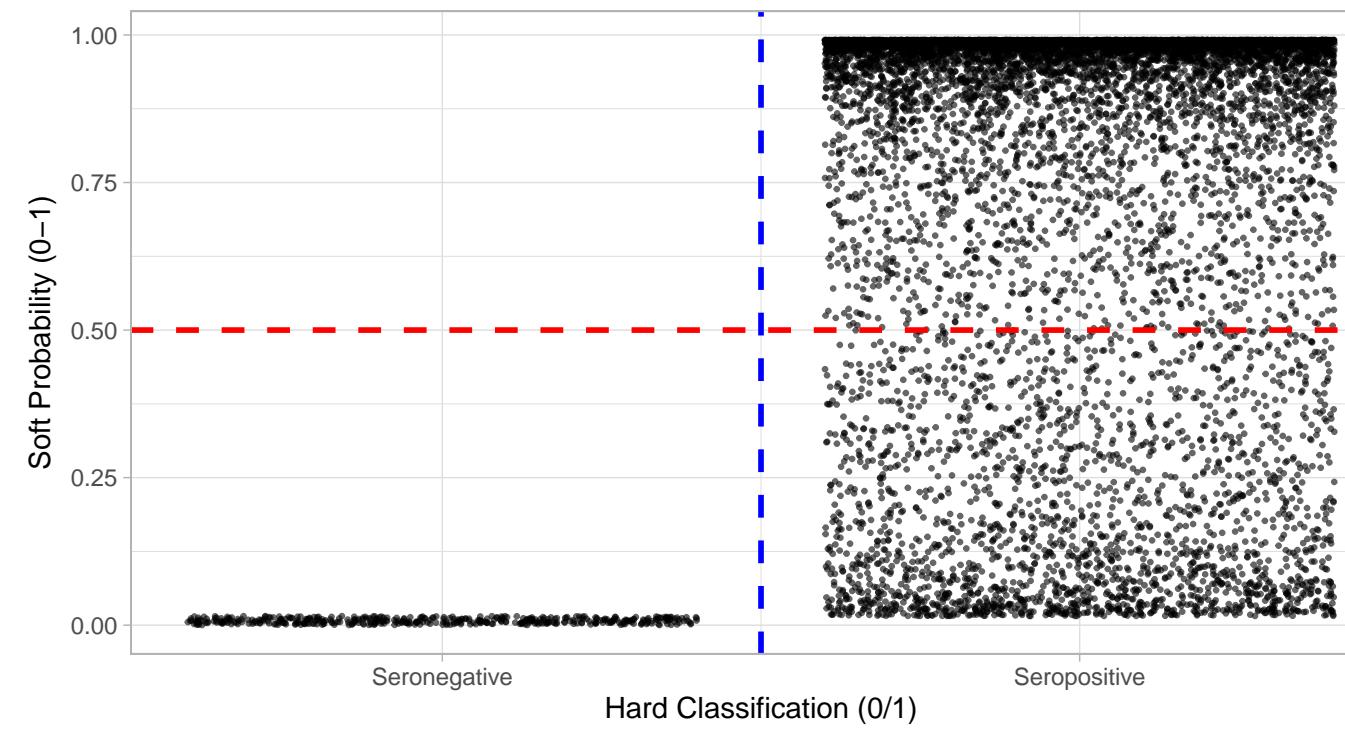
Distribution of Seropositive Probabilities: bkv_vp1

Red line = 50% threshold



Hard vs Soft Classification: bkv_vp1

Red line = 50% soft threshold, Blue line = hard threshold



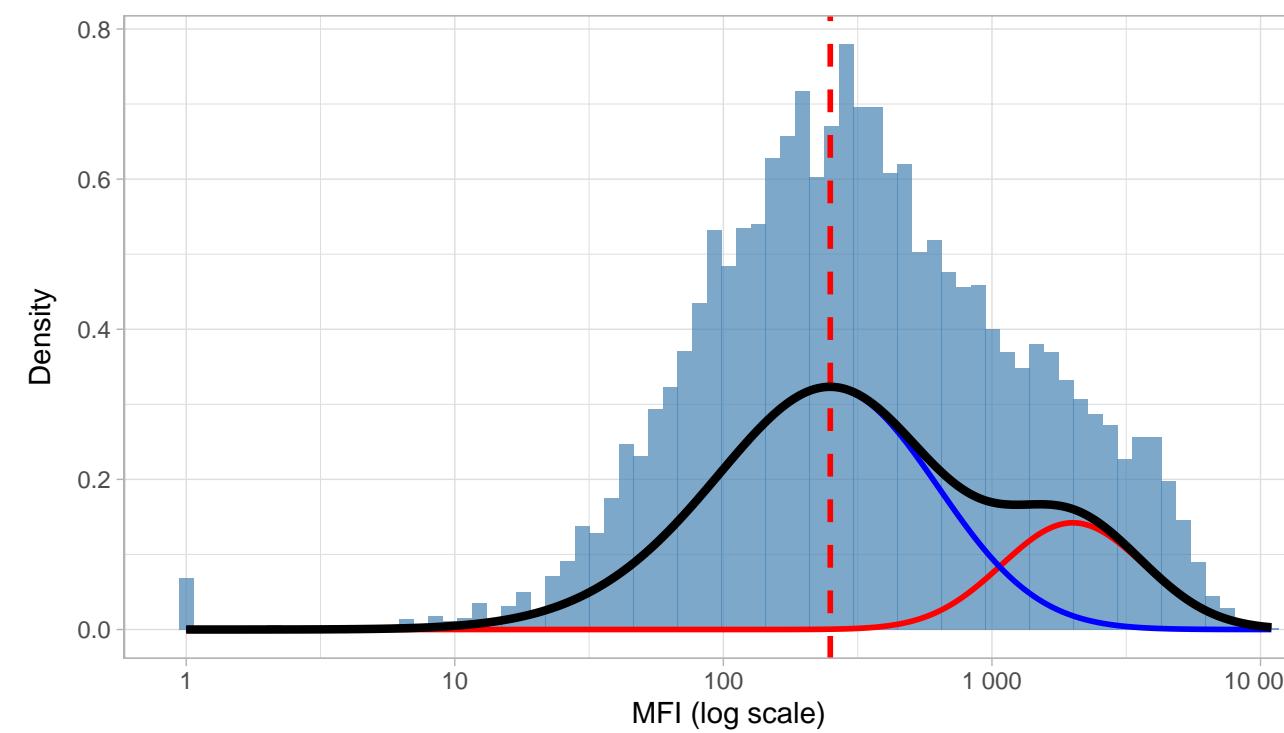
PC1 components not available

Diagnostics: jcv_vp1

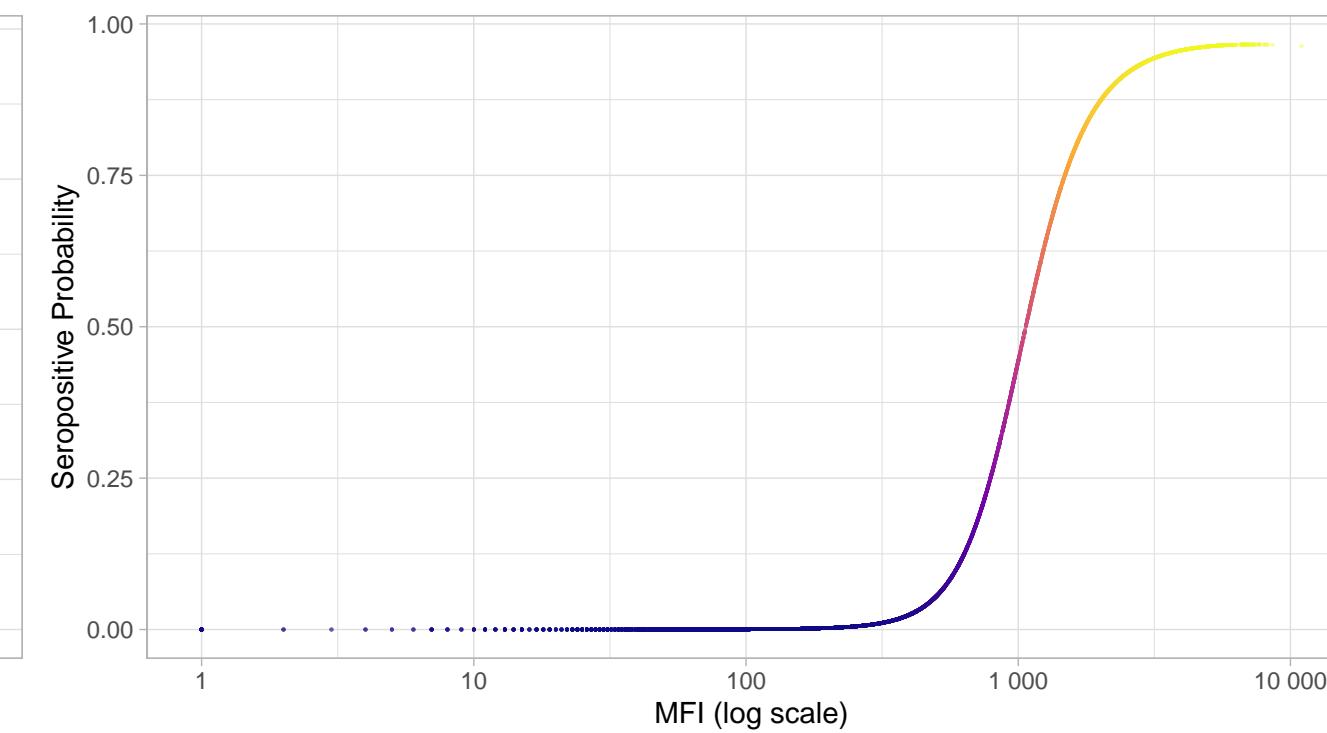
N=9424 | >0.95=483 | <0.05=5852 | Ambig=3089

Original MFI Distribution: jcv_vp1

Hard cutoff threshold = 250

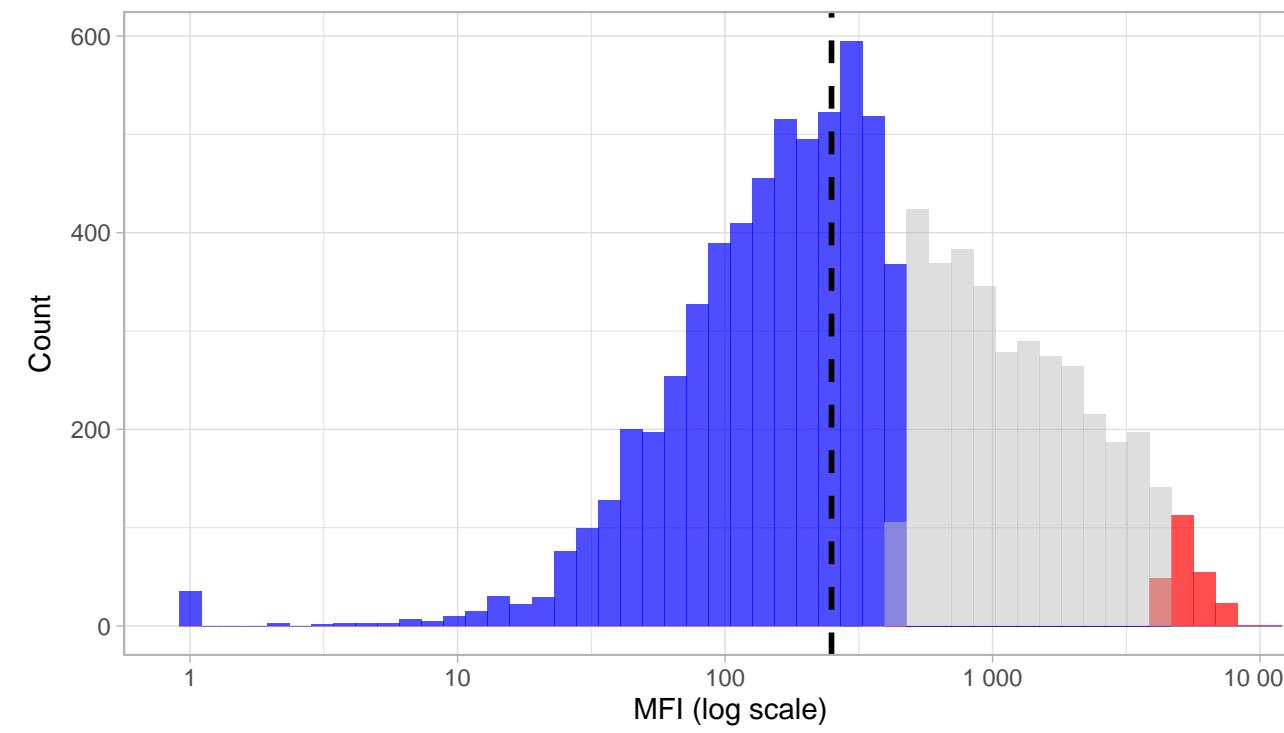


IgG vs Seropositive Probability: jcv_vp1



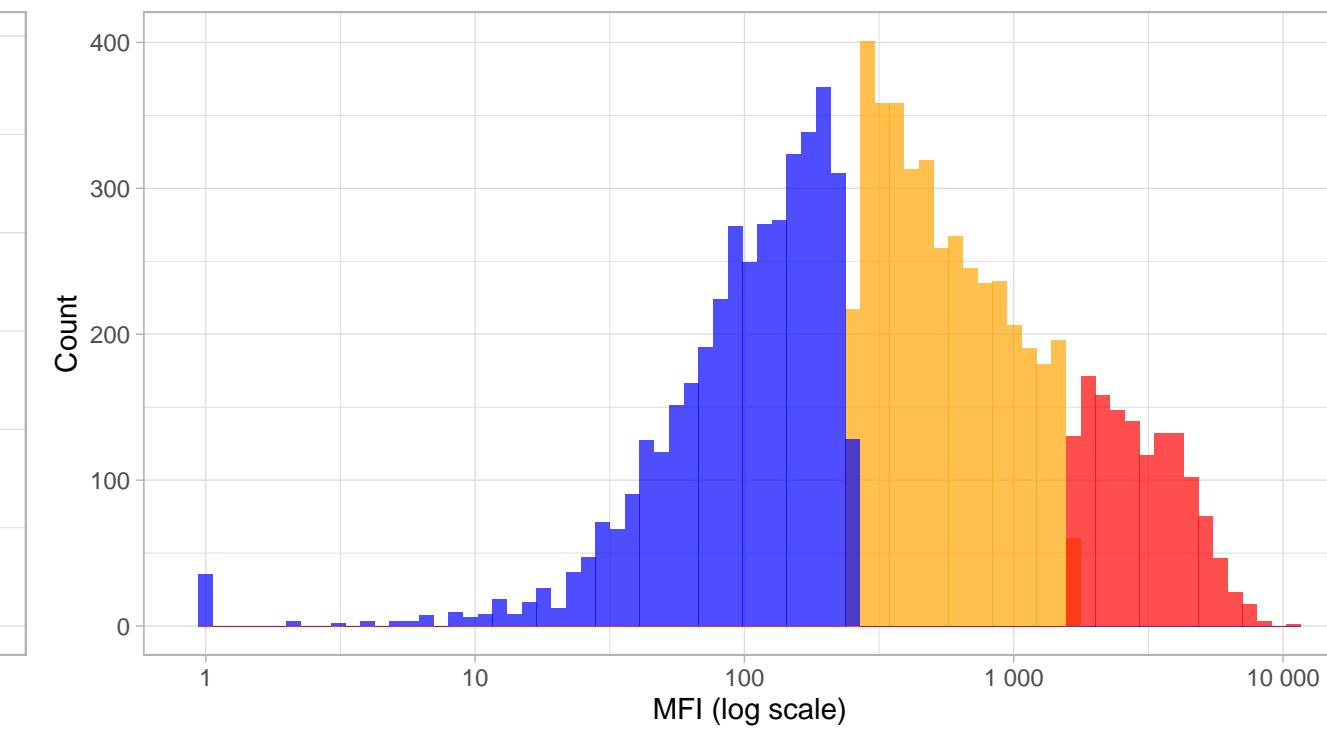
High-Confidence Seropositive Distribution: jcv_vp1

Prob threshold = 0.96

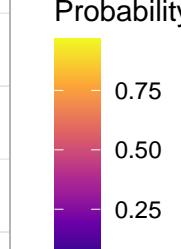


Phenotype Distribution by Classification: jcv_vp1

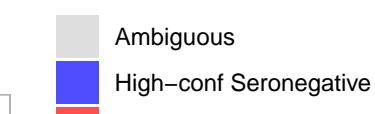
Comparing hard vs soft classifications



Seropositive Probability



Classification

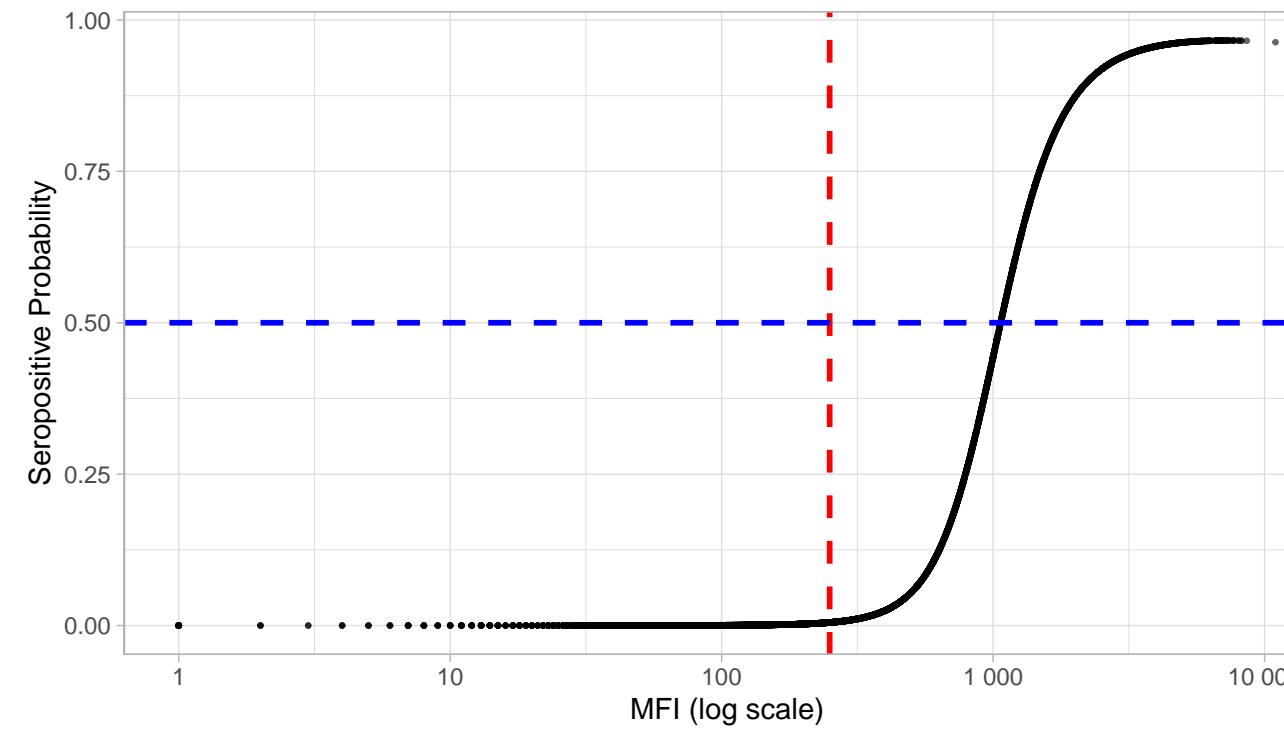


Classification



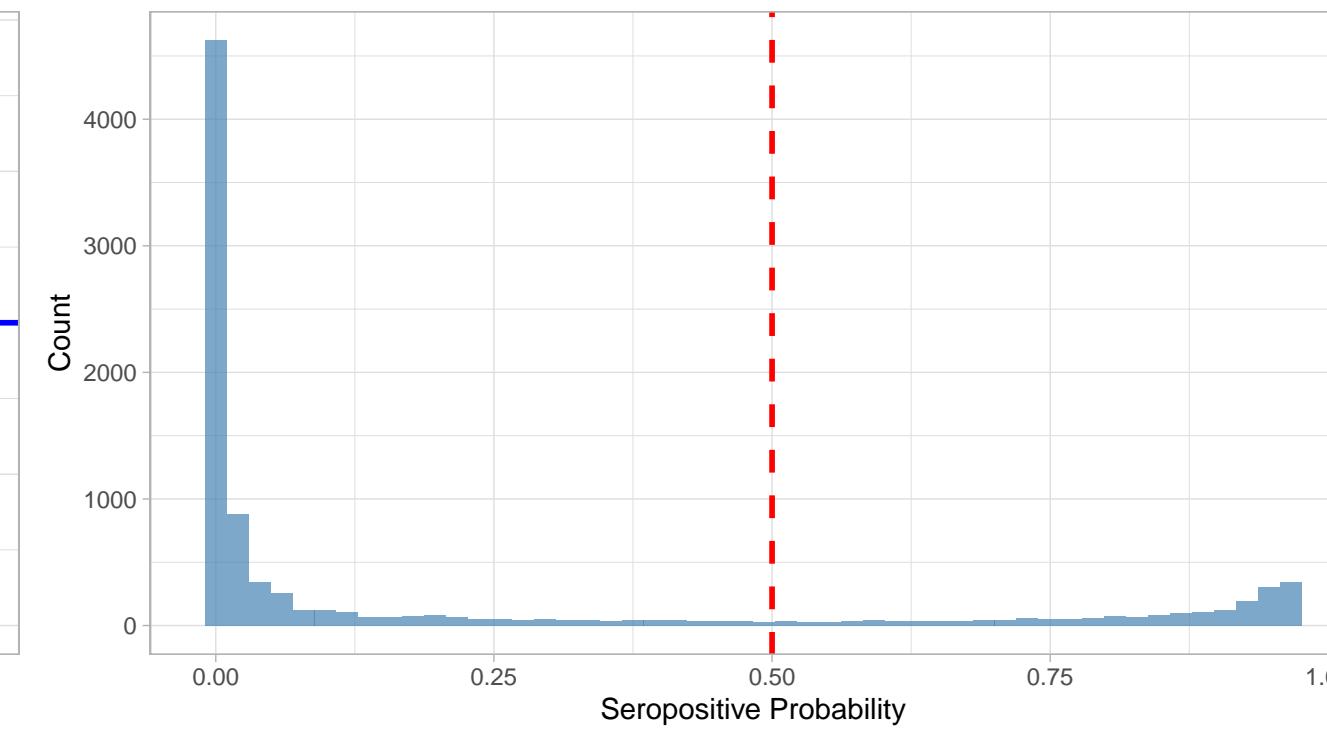
IgG Level vs Seropositive Probability: jcv_vp1

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



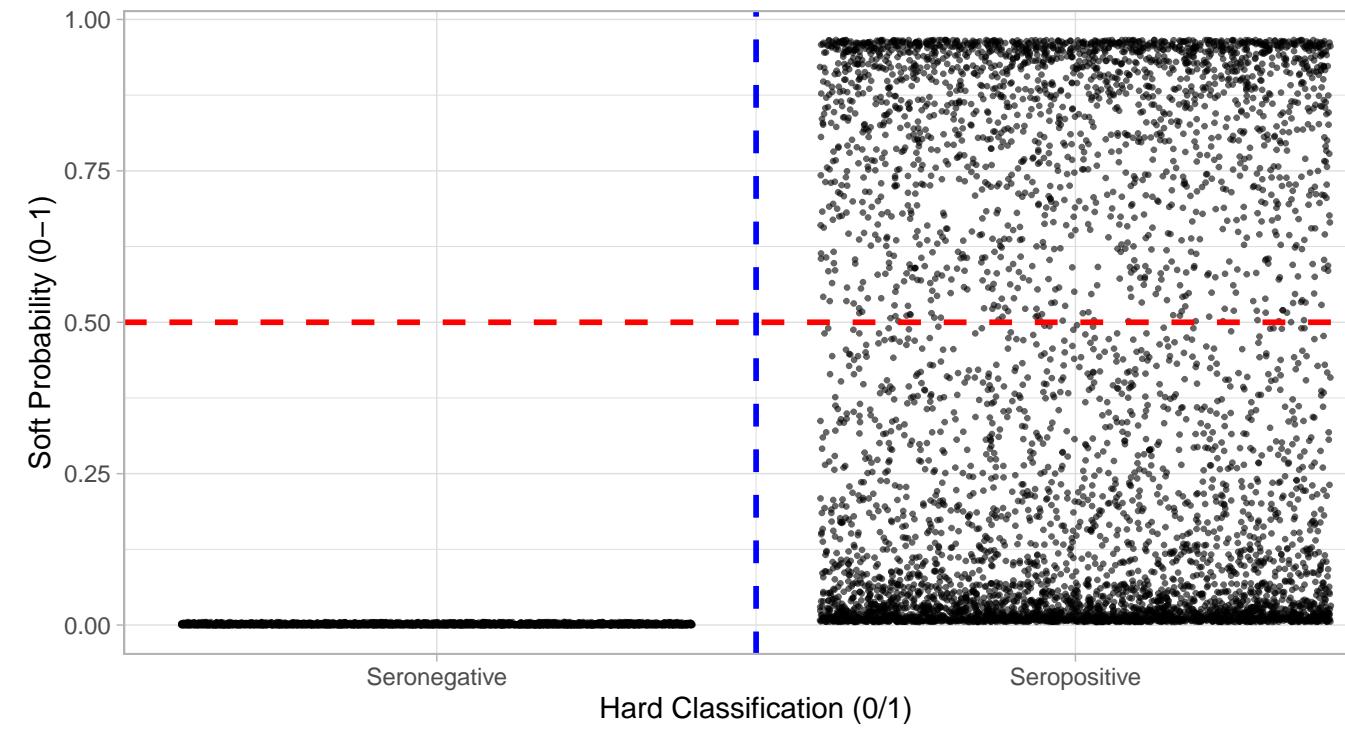
Distribution of Seropositive Probabilities: jcv_vp1

Red line = 50% threshold



Hard vs Soft Classification: jcv_vp1

Red line = 50% soft threshold, Blue line = hard threshold



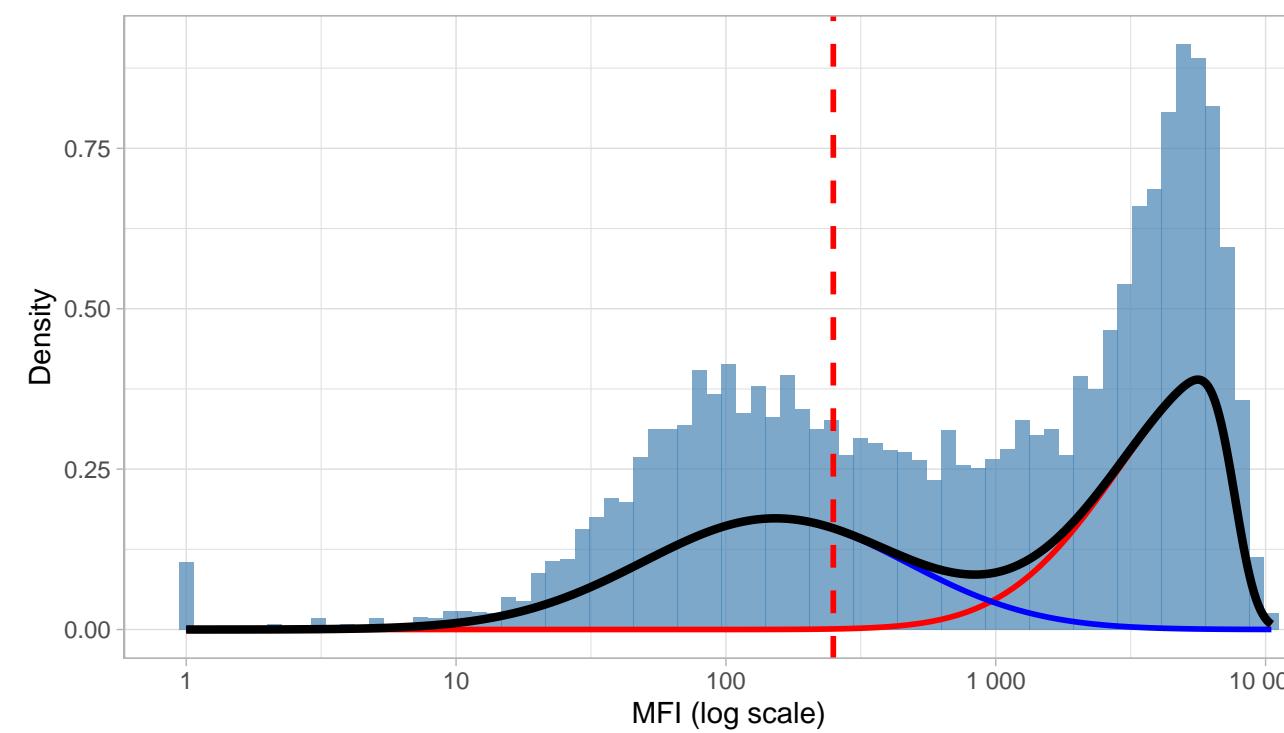
PC1 components not available

Diagnostics: mcv_vp1

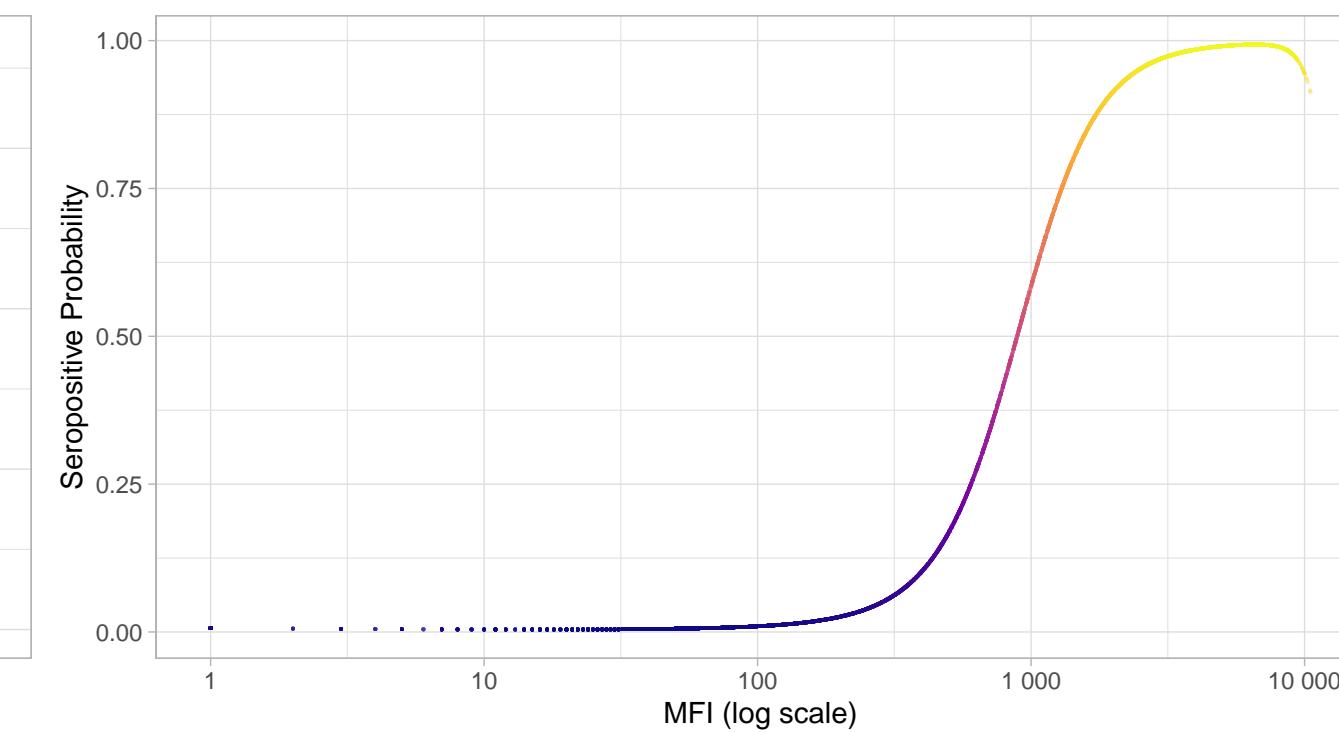
N=9424 | >0.95=3527 | <0.05=3311 | Ambig=2586

Original MFI Distribution: mcv_vp1

Hard cutoff threshold = 250

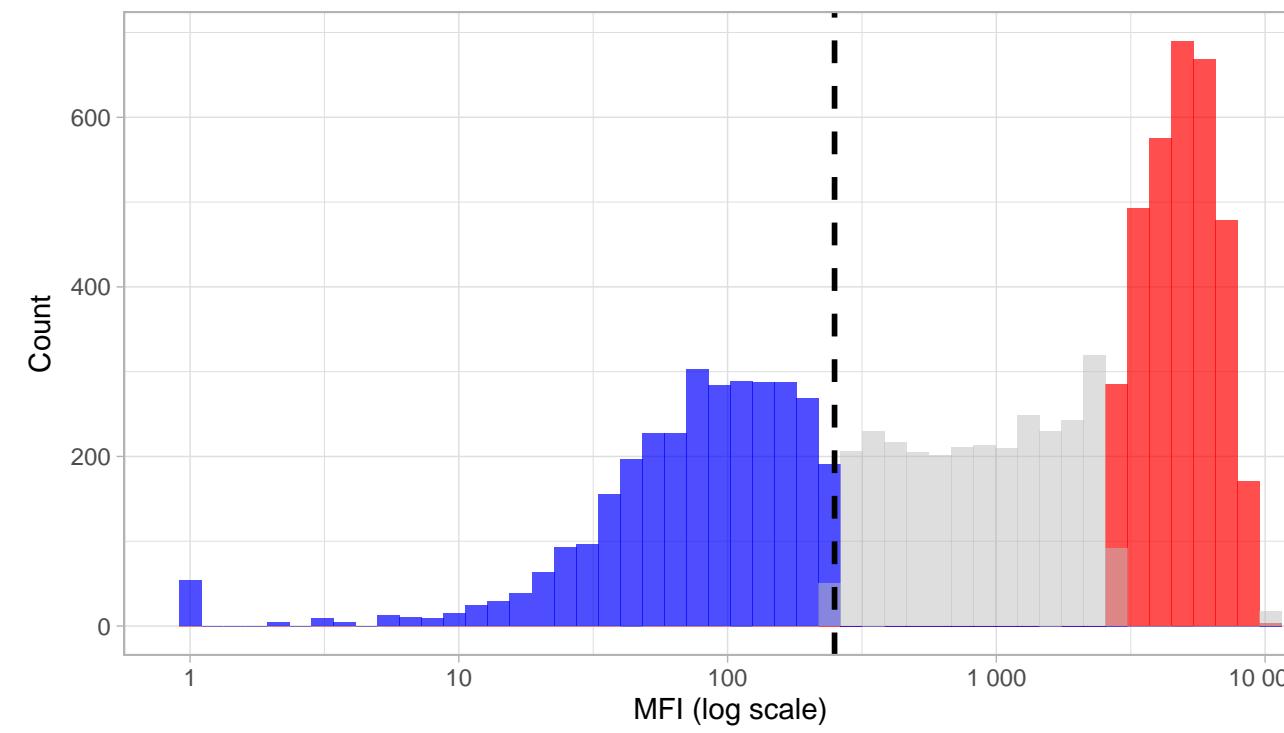


IgG vs Seropositive Probability: mcv_vp1



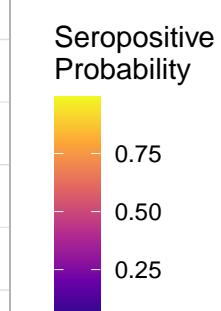
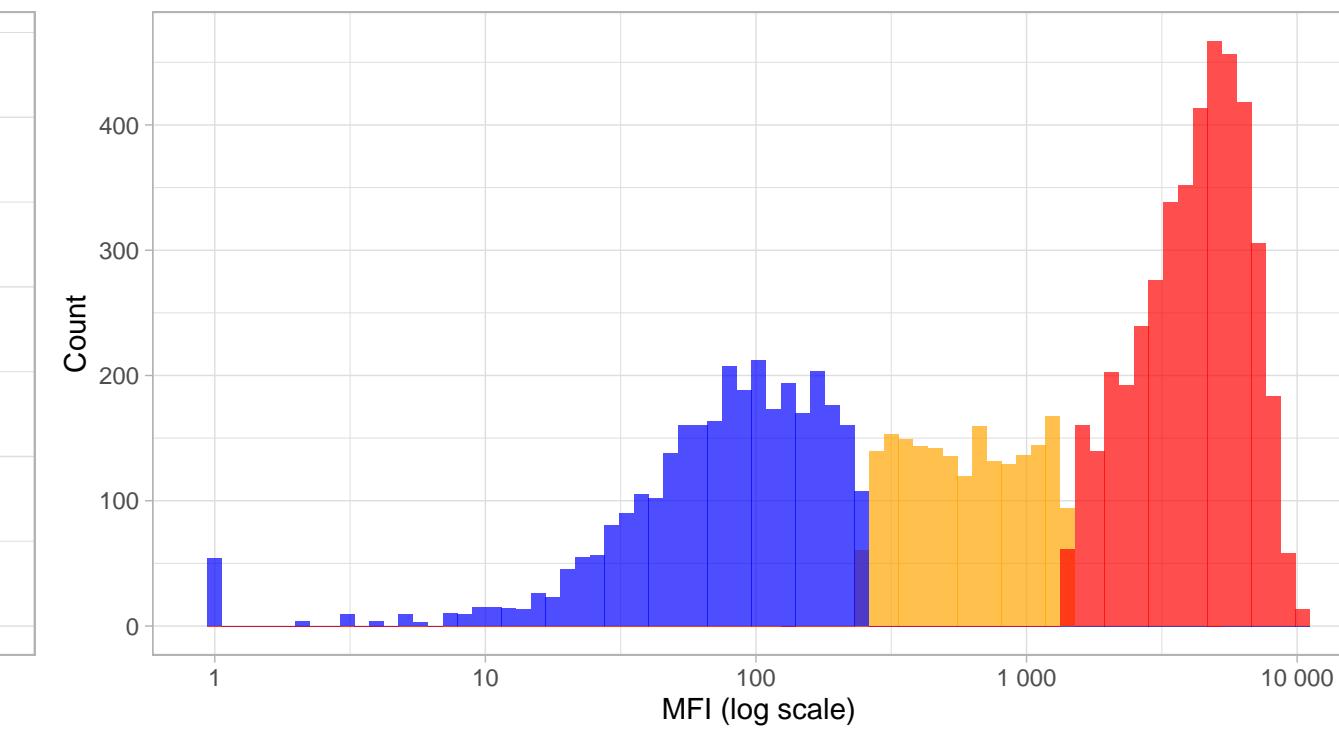
High-Confidence Seropositive Distribution: mcv_vp1

Prob threshold = 0.96

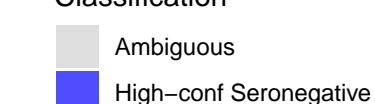


Phenotype Distribution by Classification: mcv_vp1

Comparing hard vs soft classifications



Classification

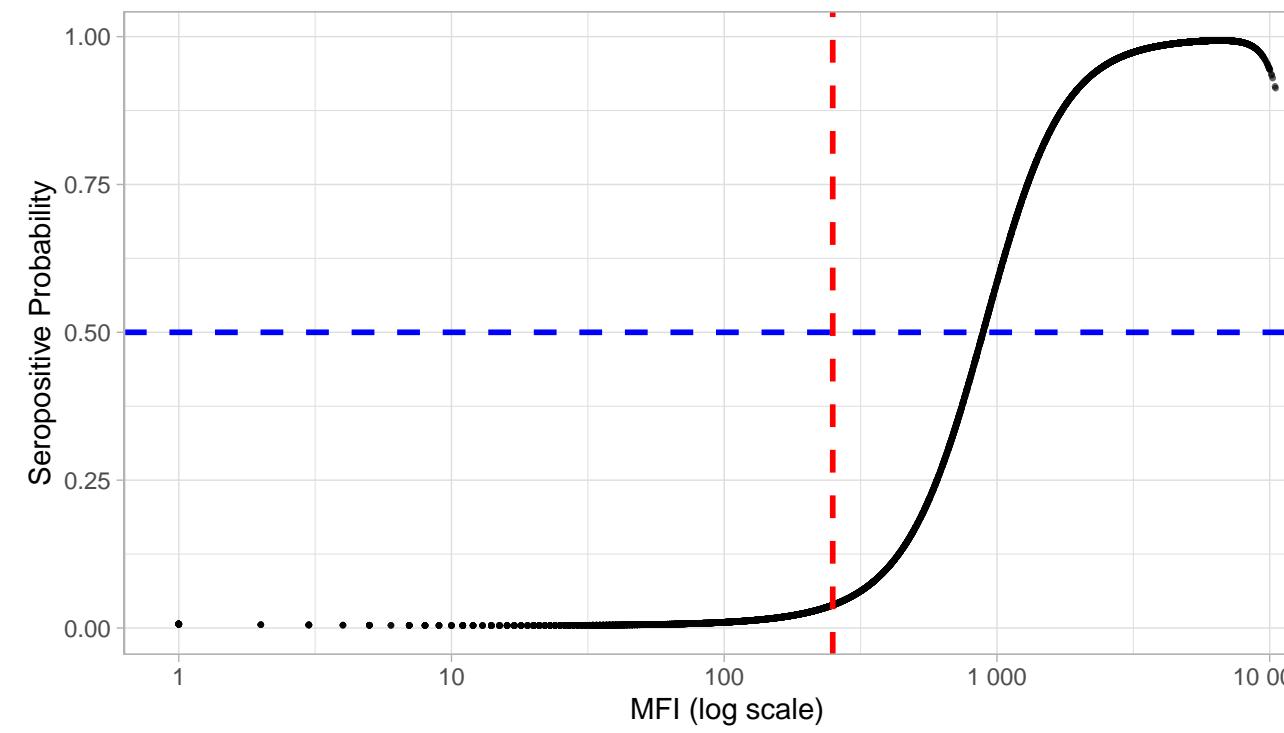


Classification



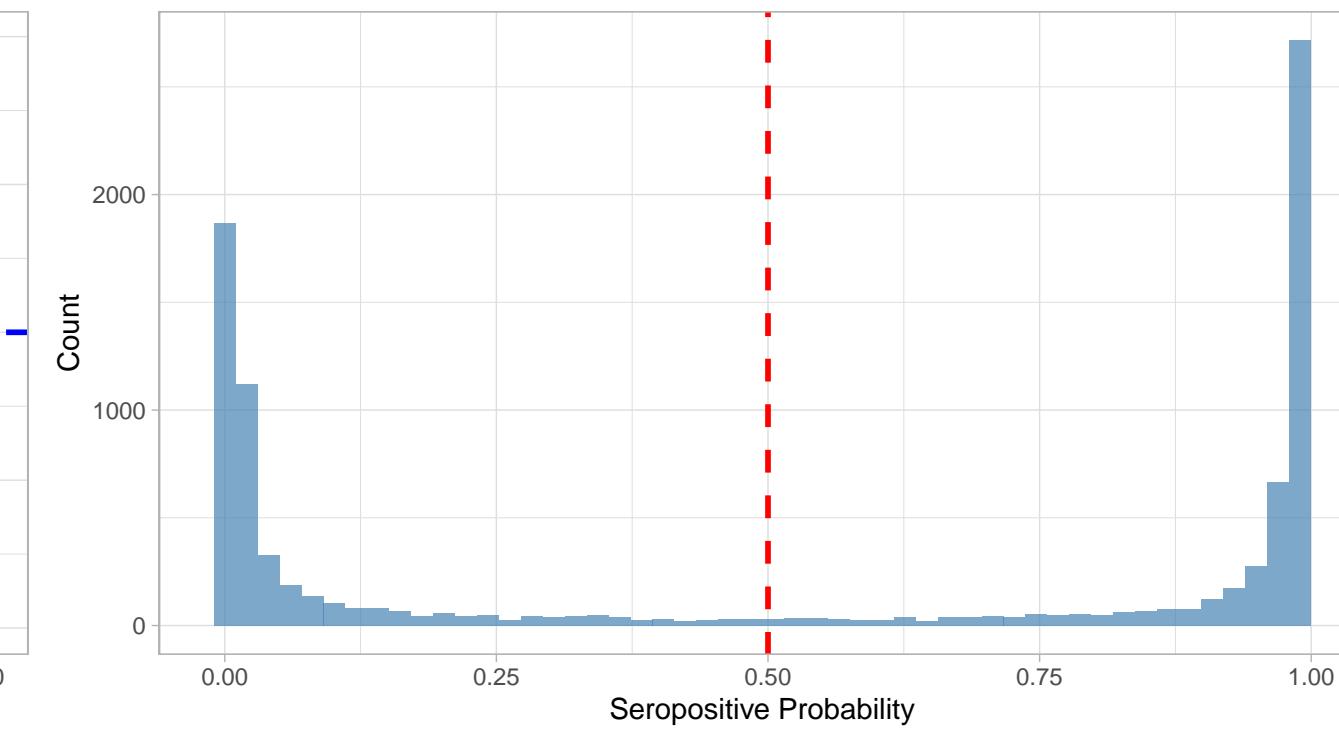
IgG Level vs Seropositive Probability: mcv_vp1

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



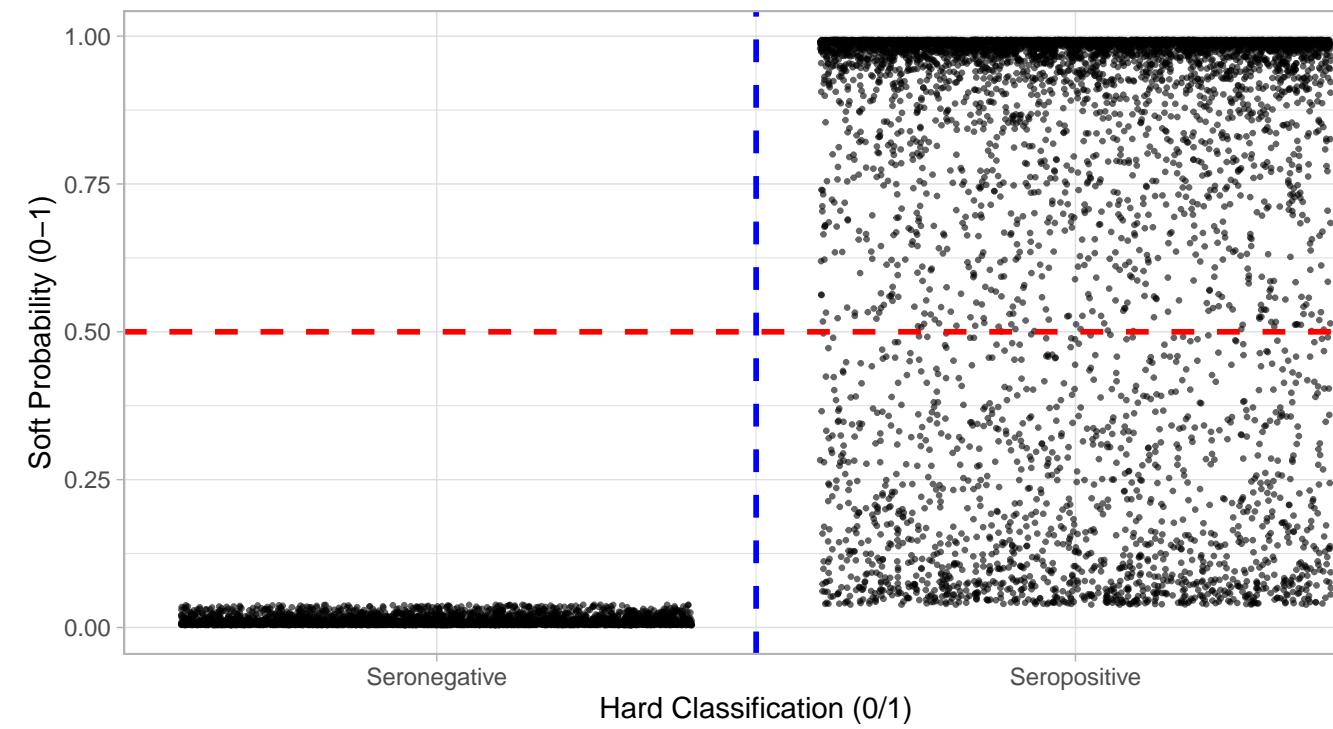
Distribution of Seropositive Probabilities: mcv_vp1

Red line = 50% threshold



Hard vs Soft Classification: mcv_vp1

Red line = 50% soft threshold, Blue line = hard threshold



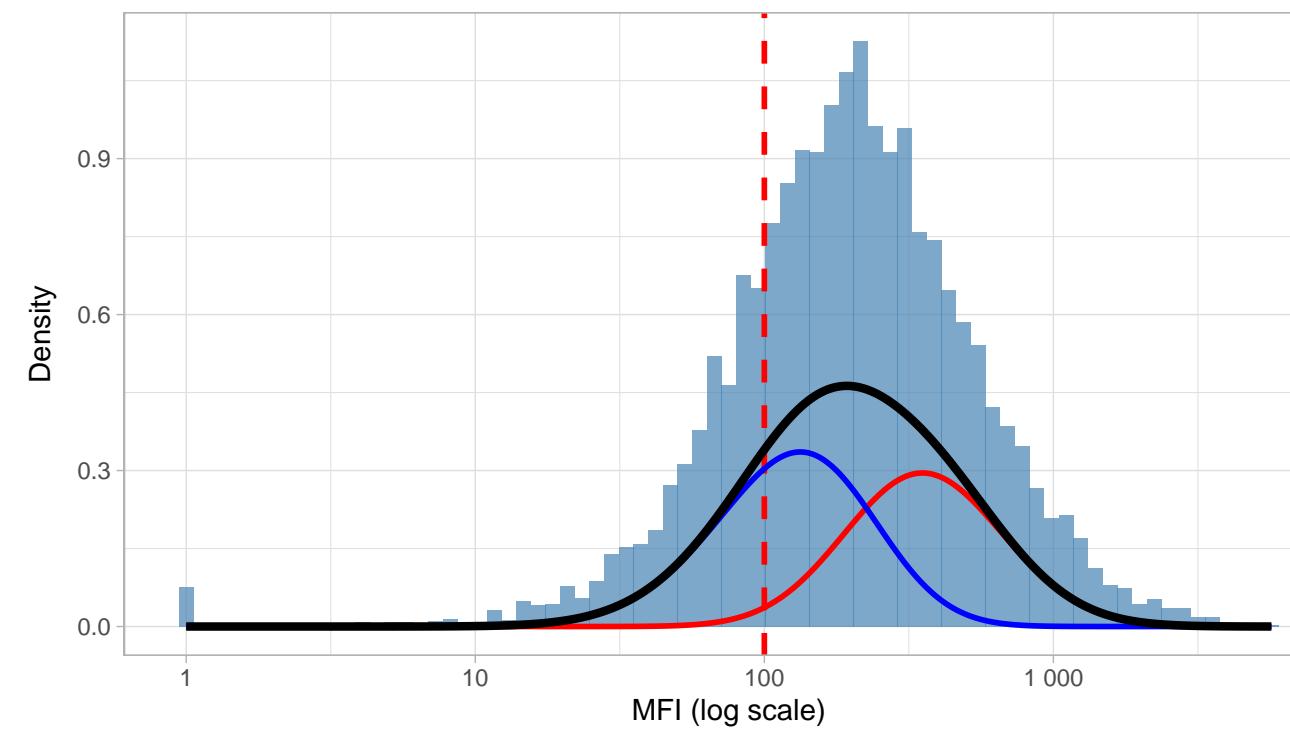
PC1 components not available

Diagnostics: hhv6_ie1a

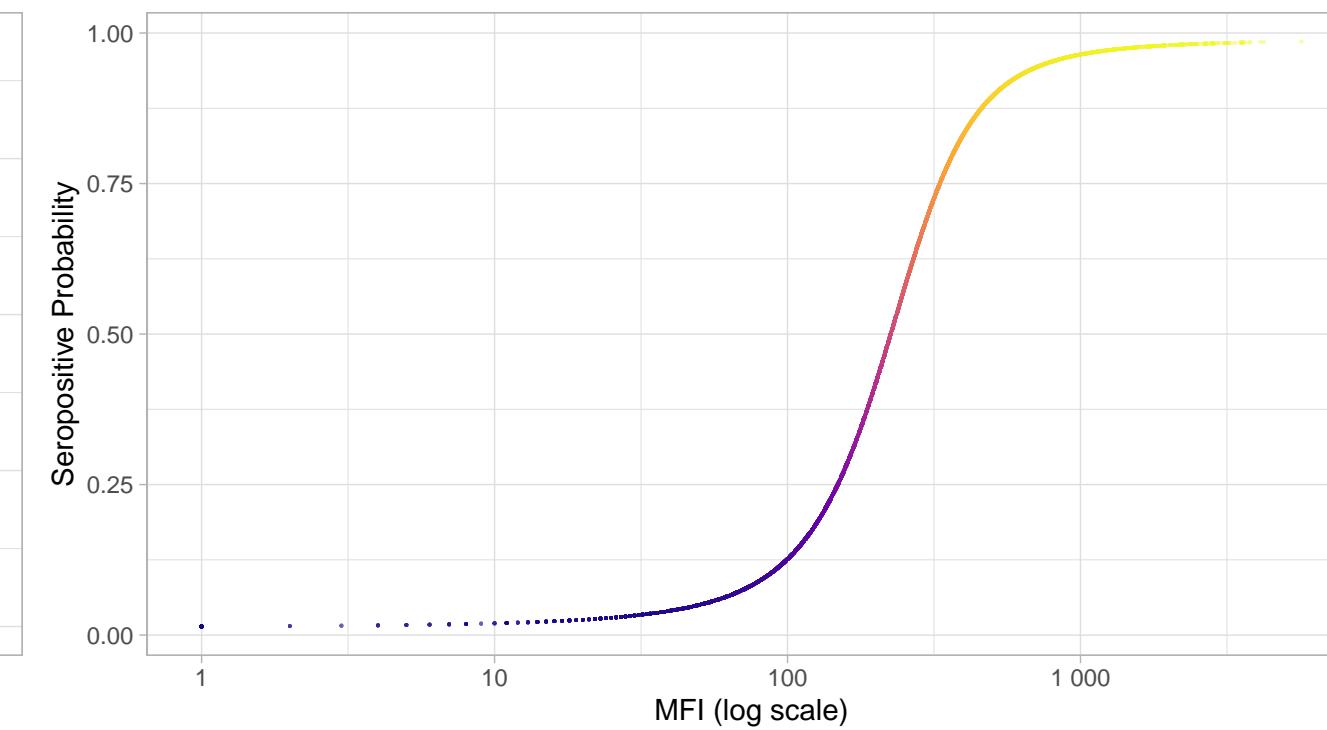
N=9424 | >0.95=732 | <0.05=675 | Ambig=8017

Original MFI Distribution: hhv6_ie1a

Hard cutoff threshold = 100

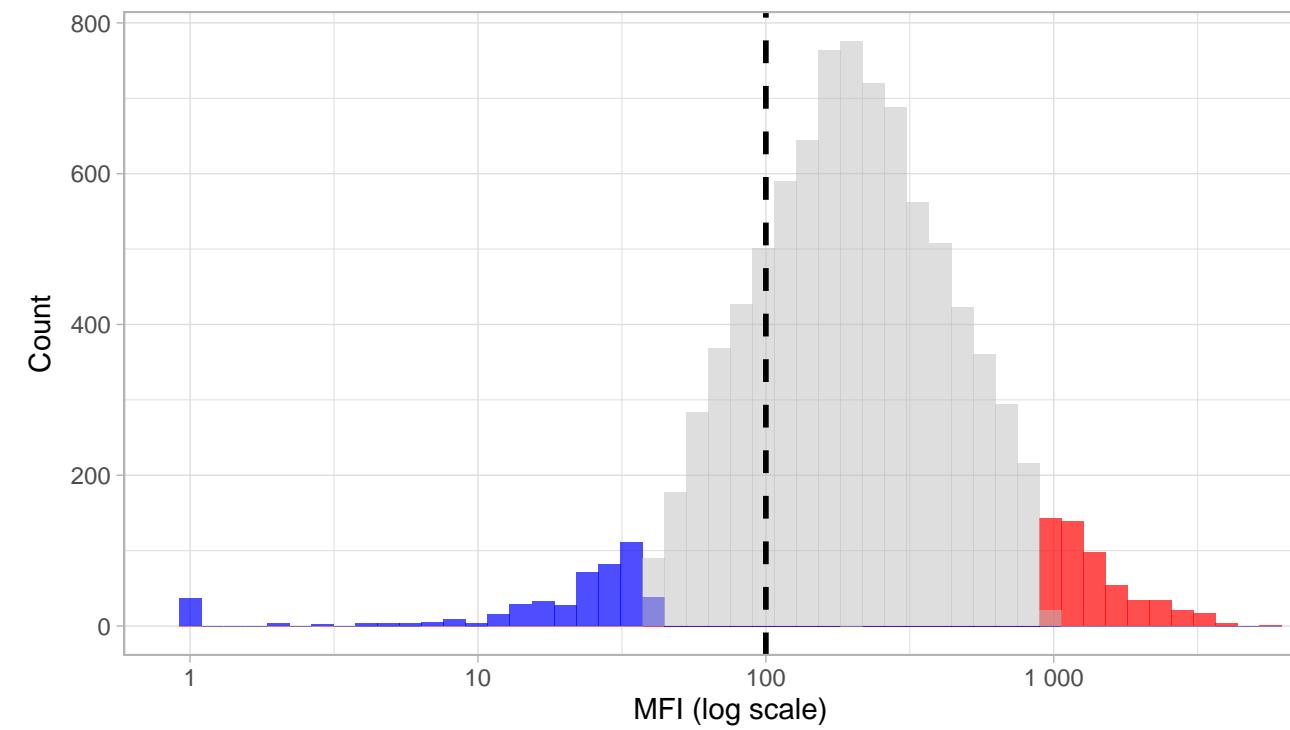


IgG vs Seropositive Probability: hhv6_ie1a



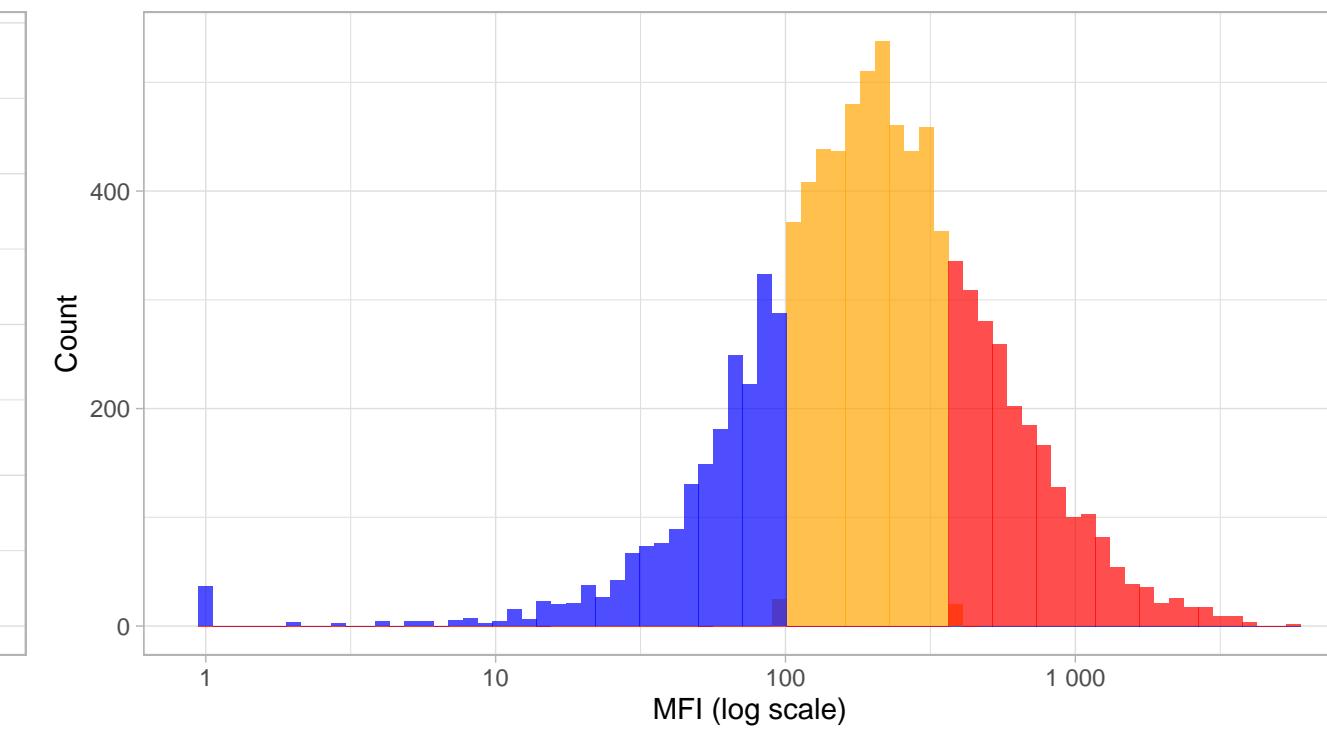
High-Confidence Seropositive Distribution: hhv6_ie1a

Prob threshold = 0.96



Phenotype Distribution by Classification: hhv6_ie1a

Comparing hard vs soft classifications



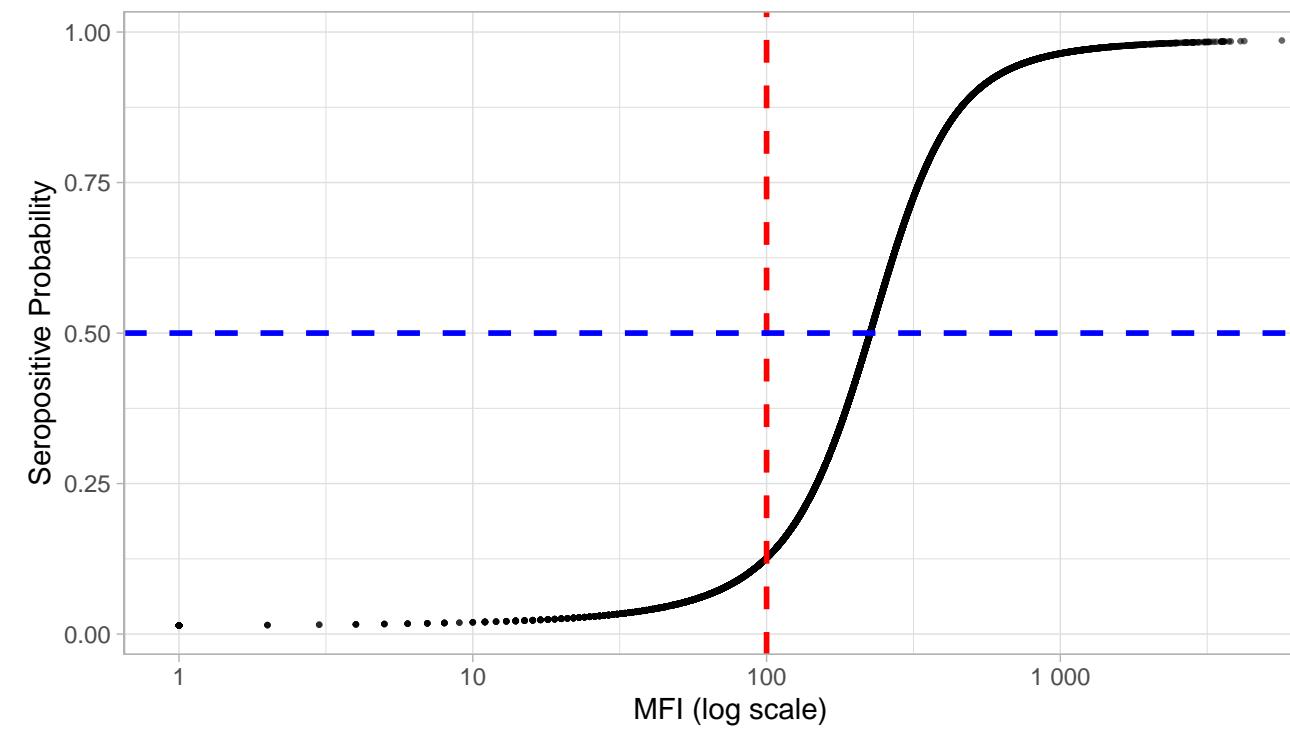
Seropositive Probability
0.75
0.50
0.25

Classification
Ambiguous
High-conf Seronegative
High-conf Seropositive

Classification
Hard Positive, Soft Low
Hard+Soft Negative
Hard+Soft Positive

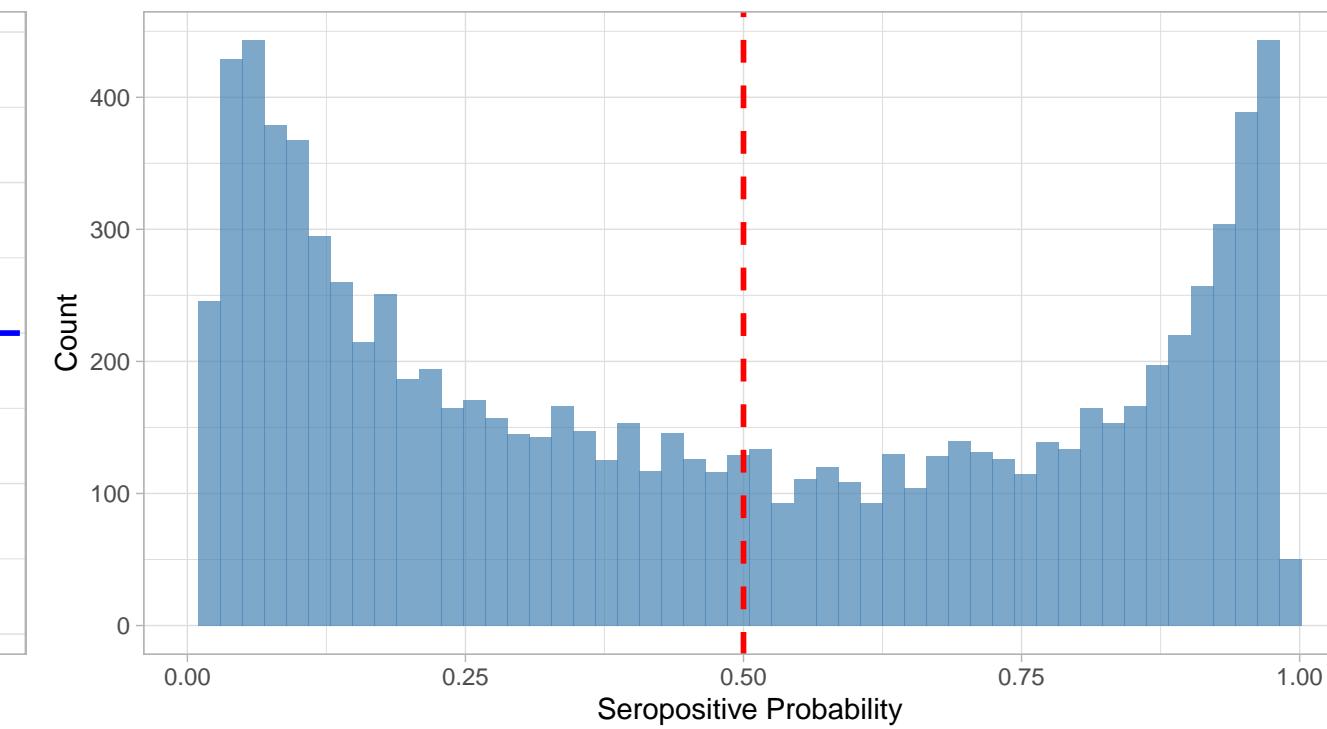
IgG Level vs Seropositive Probability: hhv6_ie1a

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



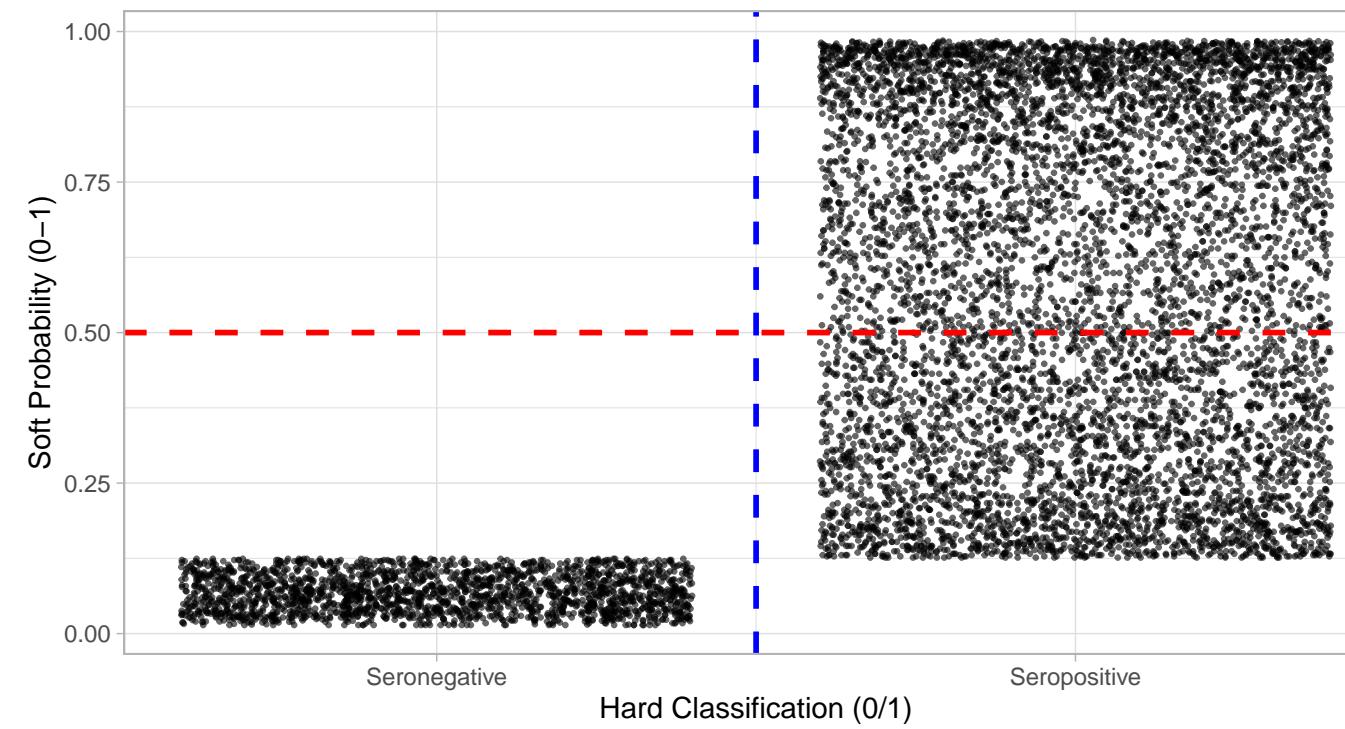
Distribution of Seropositive Probabilities: hhv6_ie1a

Red line = 50% threshold



Hard vs Soft Classification: hhv6_ie1a

Red line = 50% soft threshold, Blue line = hard threshold



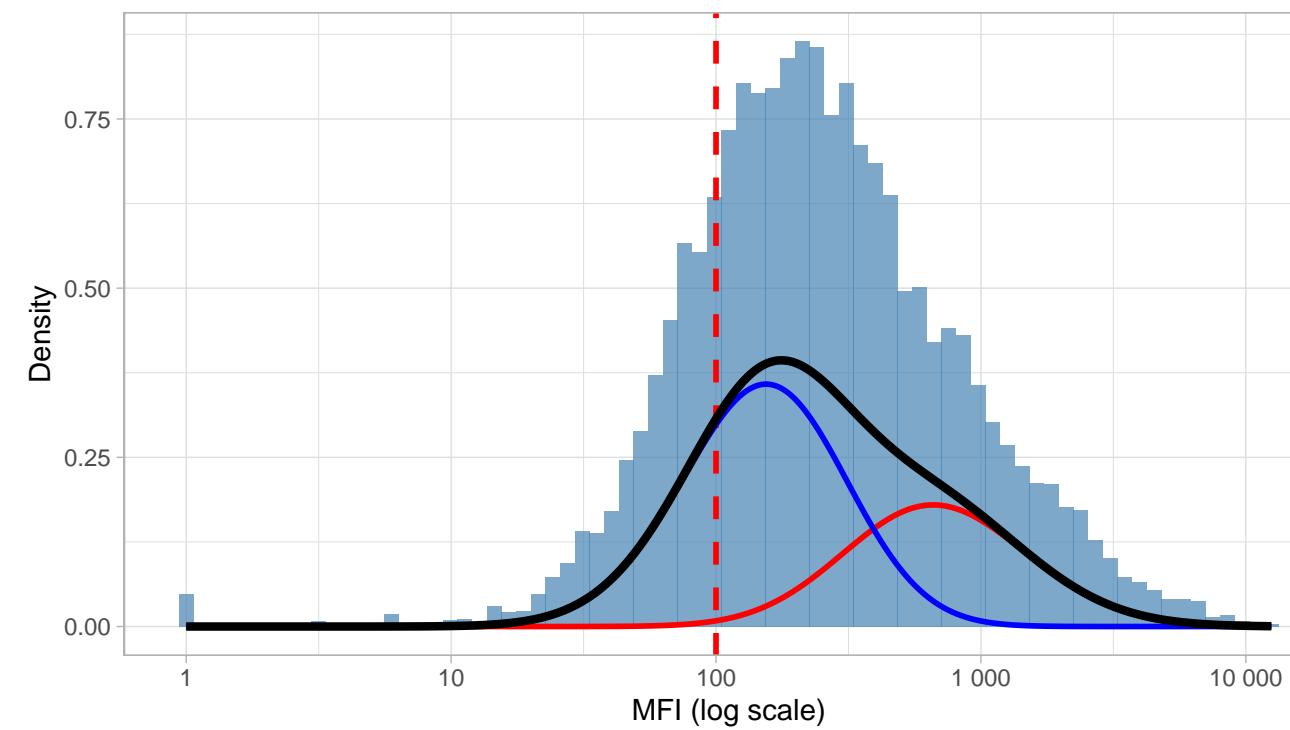
PC1 components not available

Diagnostics: hhv6_ie1b

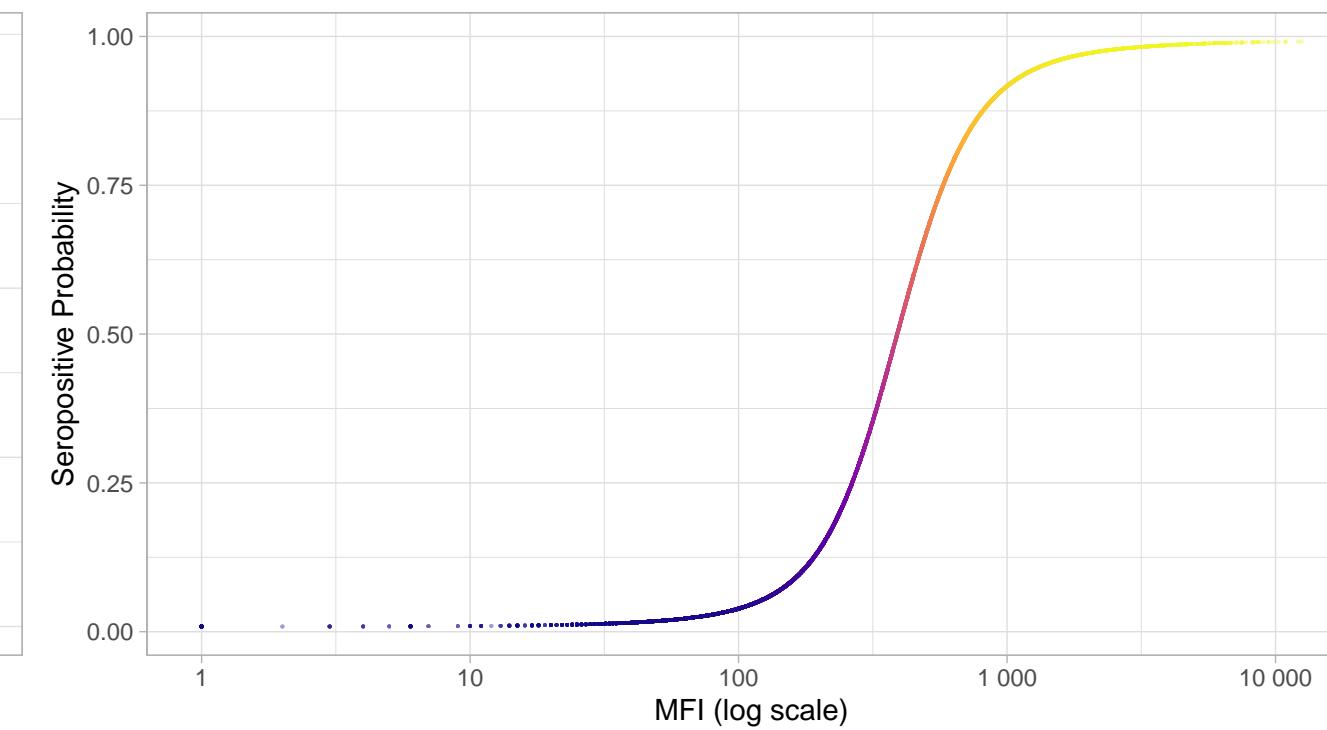
N=9424 | >0.95=833 | <0.05=2415 | Ambig=6176

Original MFI Distribution: hhv6_ie1b

Hard cutoff threshold = 100

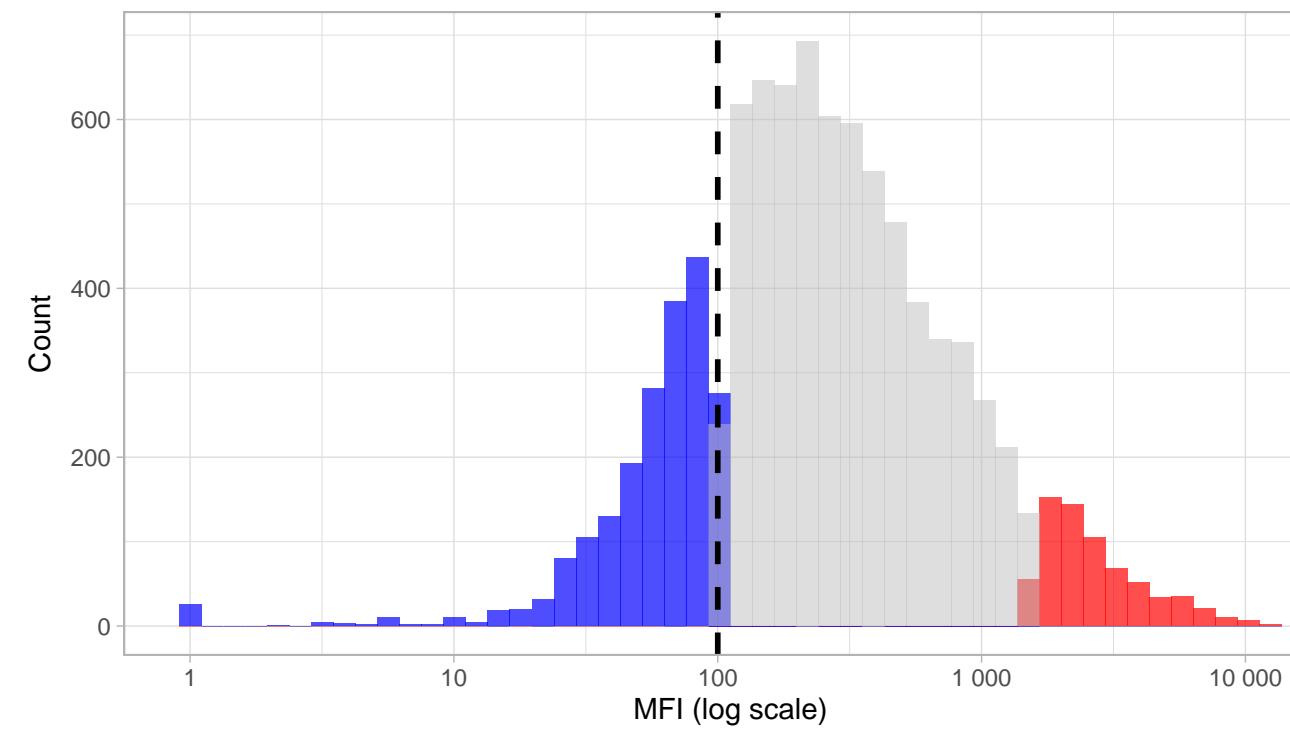


IgG vs Seropositive Probability: hhv6_ie1b



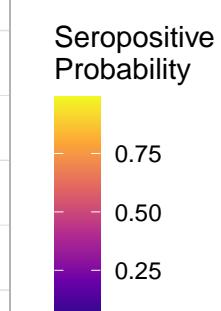
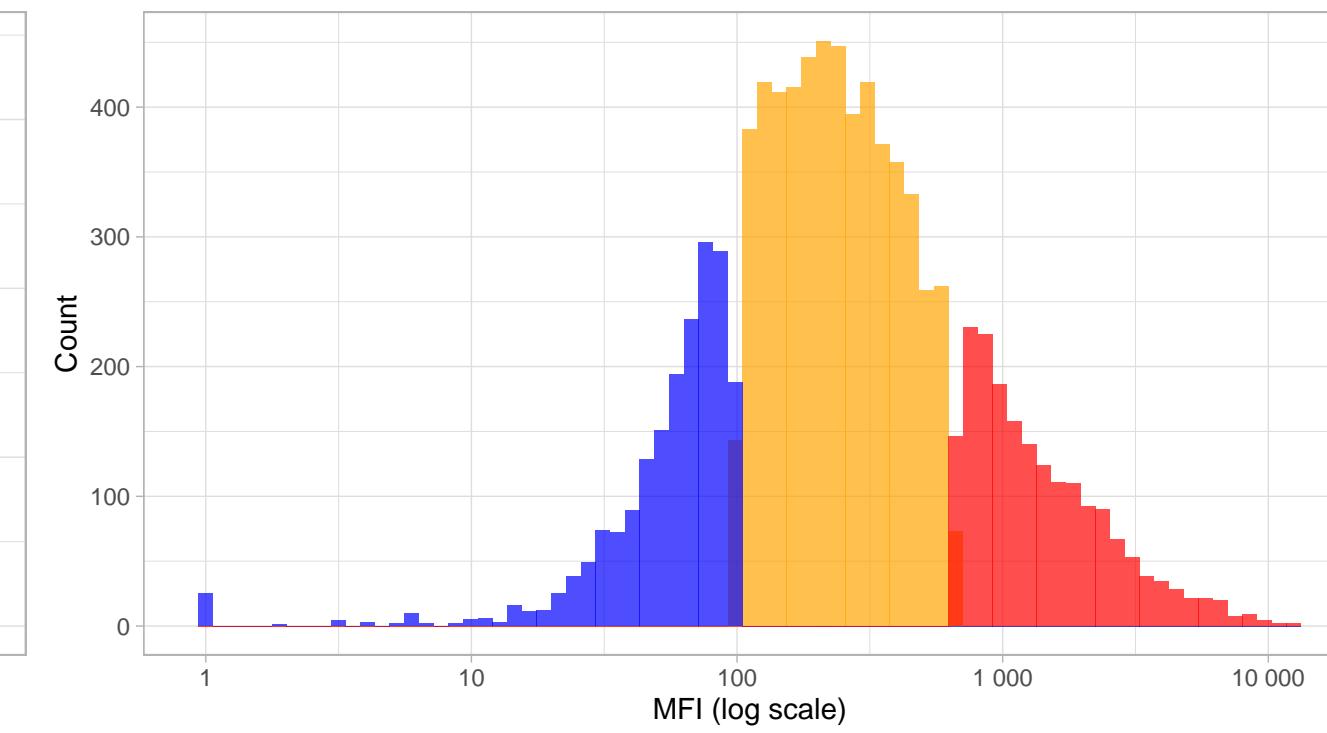
High-Confidence Seropositive Distribution: hhv6_ie1b

Prob threshold = 0.96



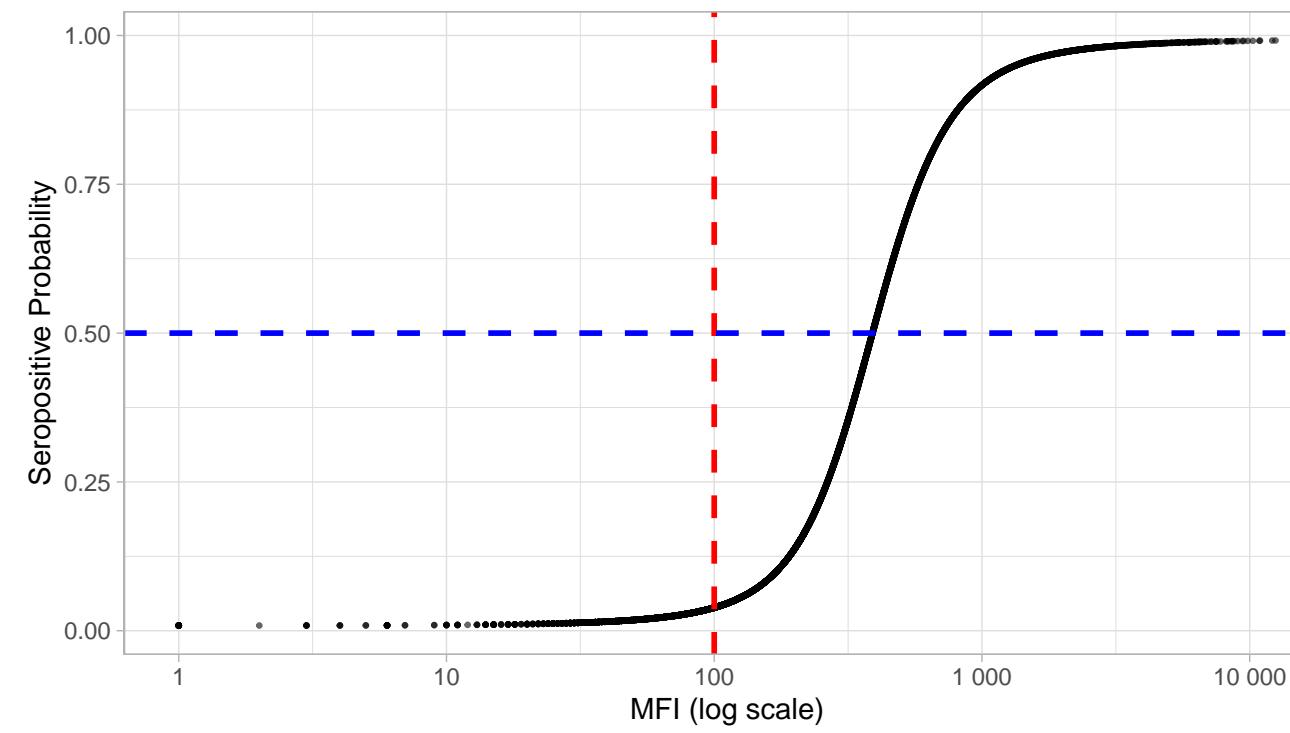
Phenotype Distribution by Classification: hhv6_ie1b

Comparing hard vs soft classifications



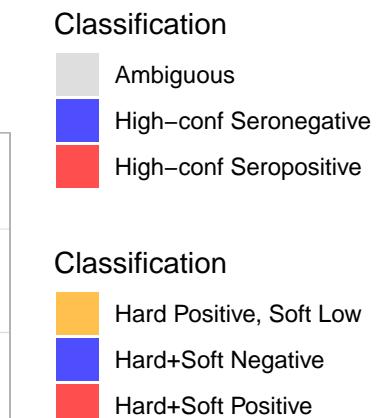
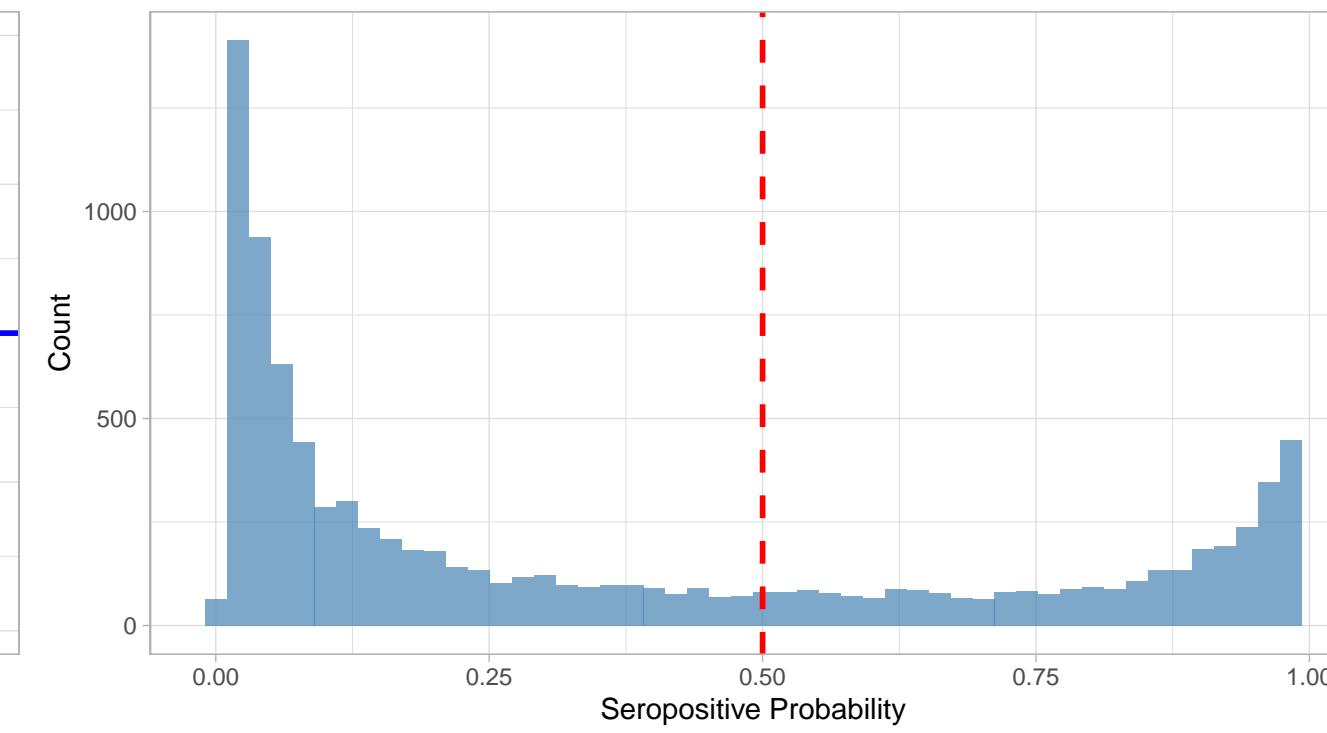
IgG Level vs Seropositive Probability: hhv6_ie1b

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



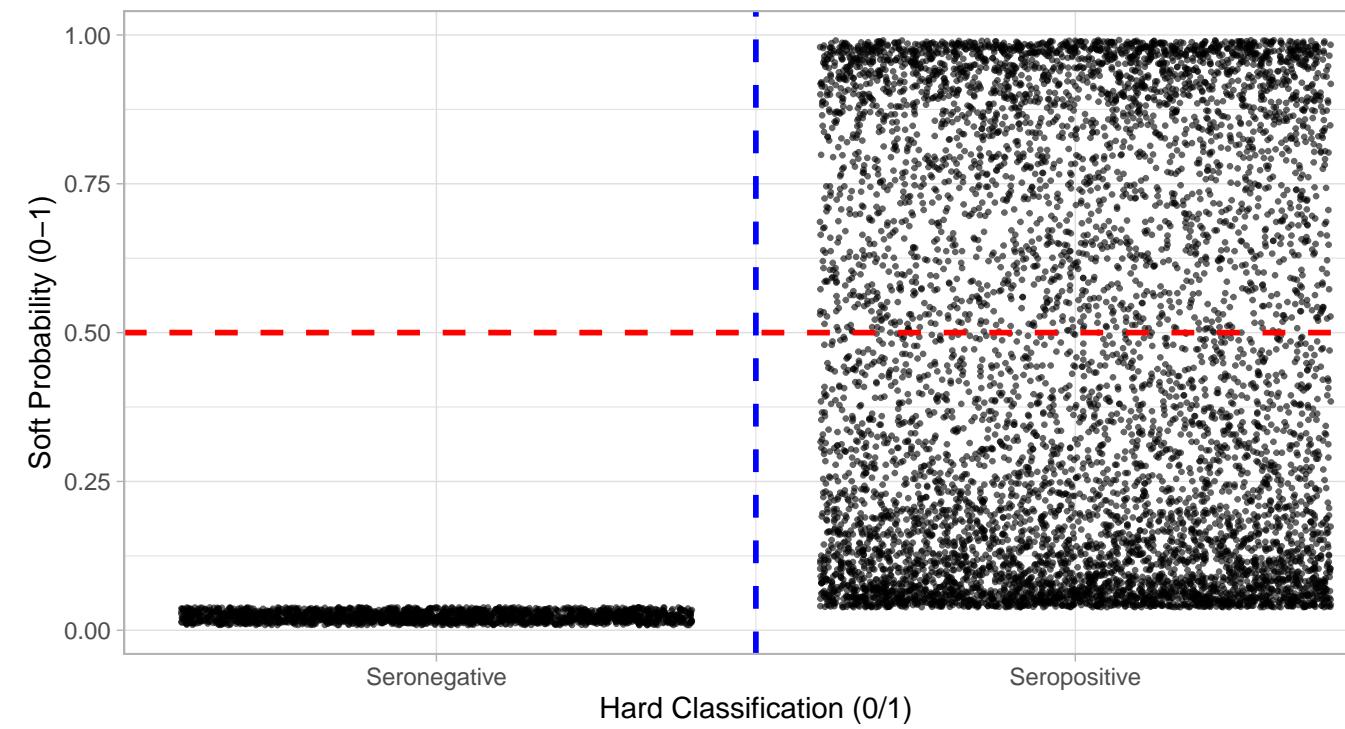
Distribution of Seropositive Probabilities: hhv6_ie1b

Red line = 50% threshold



Hard vs Soft Classification: hhv6_ie1b

Red line = 50% soft threshold, Blue line = hard threshold



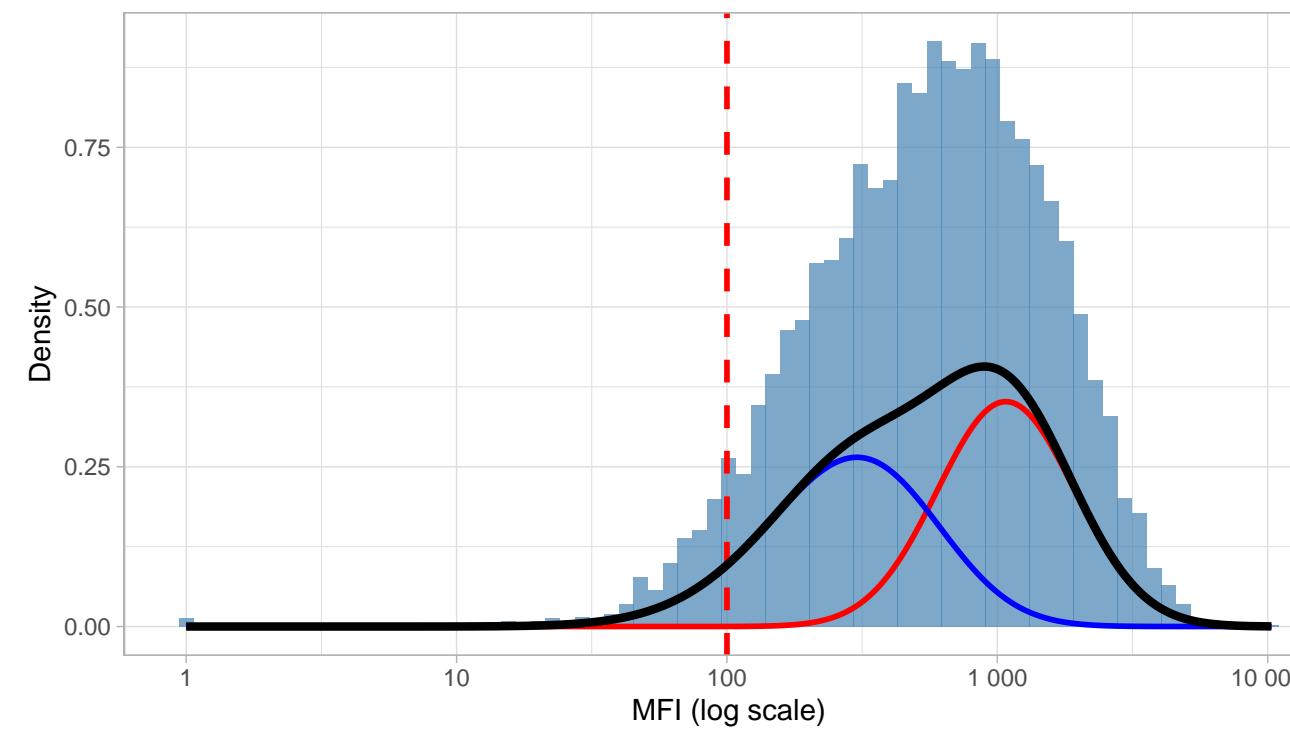
PC1 components not available

Diagnostics: hhv7_u14

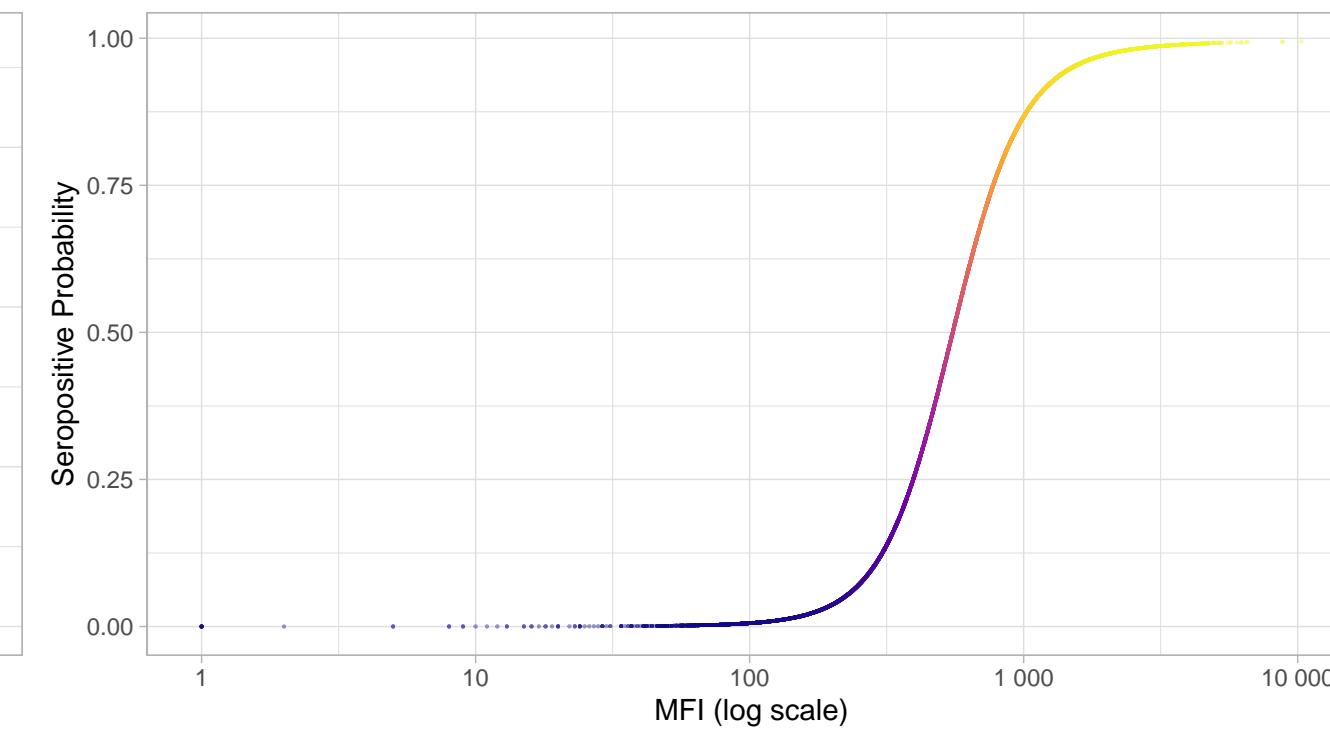
N=9424 | >0.95=1551 | <0.05=1777 | Ambig=6096

Original MFI Distribution: hhv7_u14

Hard cutoff threshold = 100

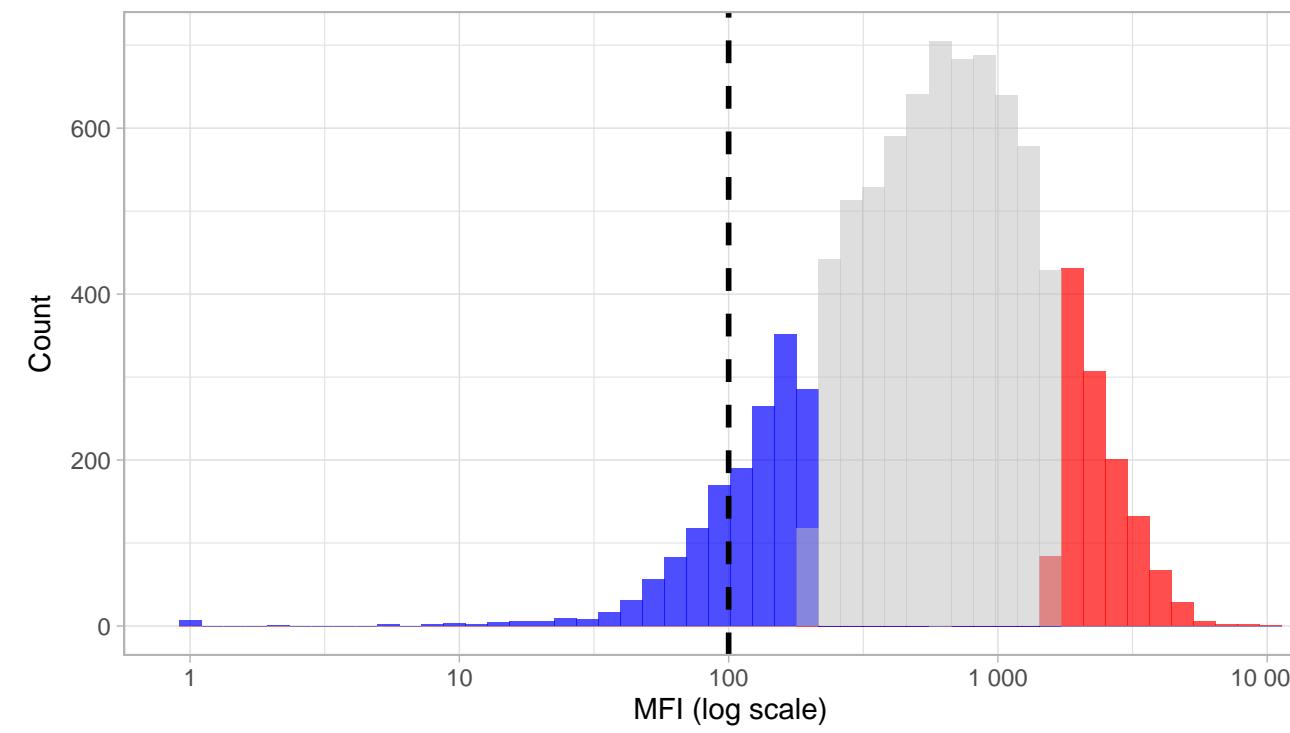


IgG vs Seropositive Probability: hhv7_u14



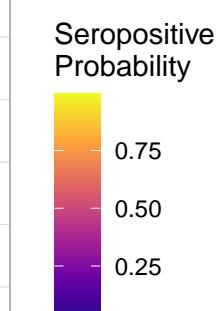
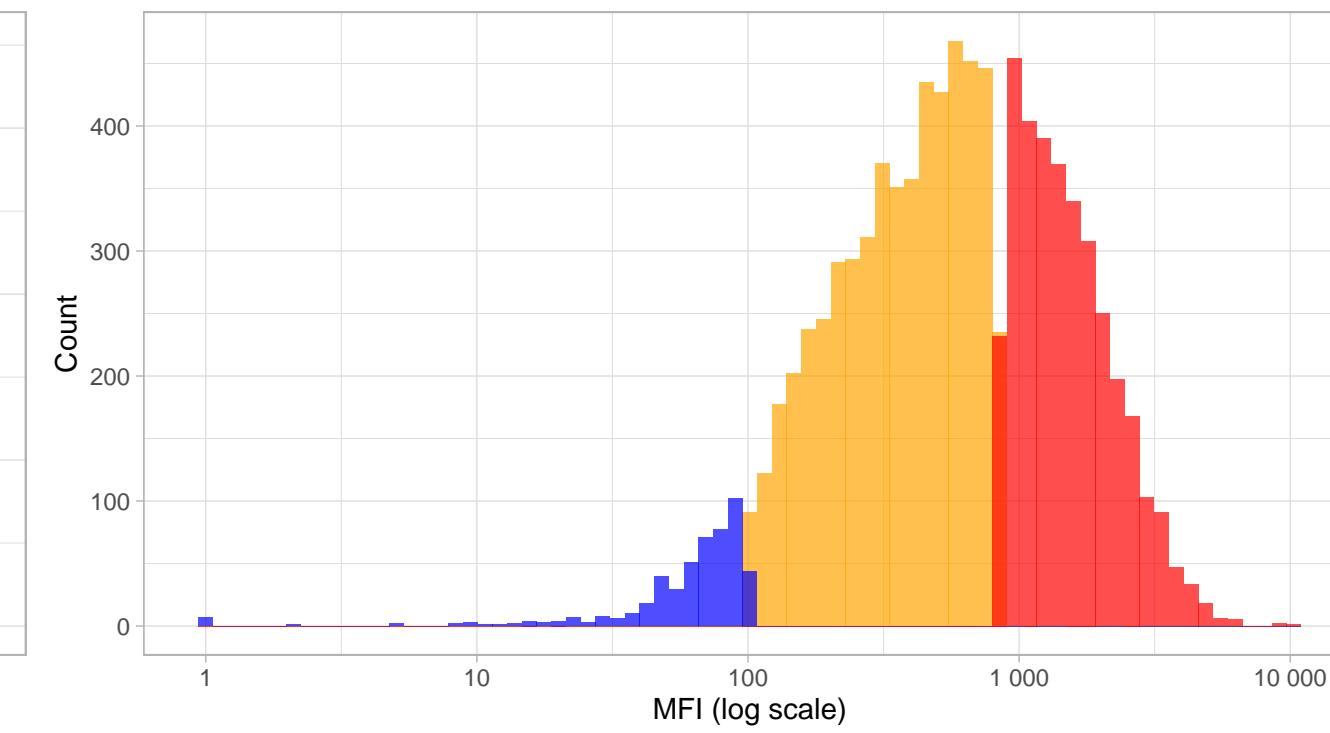
High-Confidence Seropositive Distribution: hhv7_u14

Prob threshold = 0.96

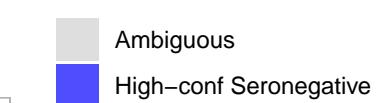


Phenotype Distribution by Classification: hhv7_u14

Comparing hard vs soft classifications



Classification

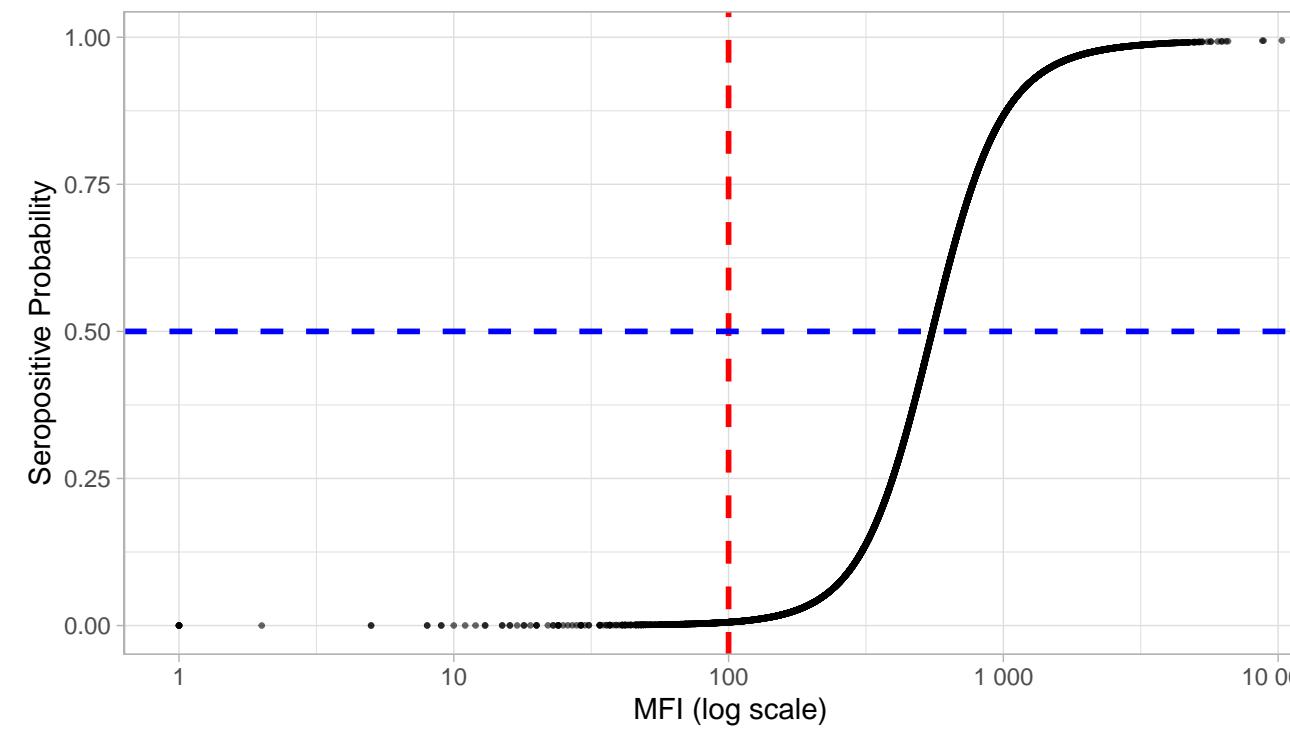


Classification



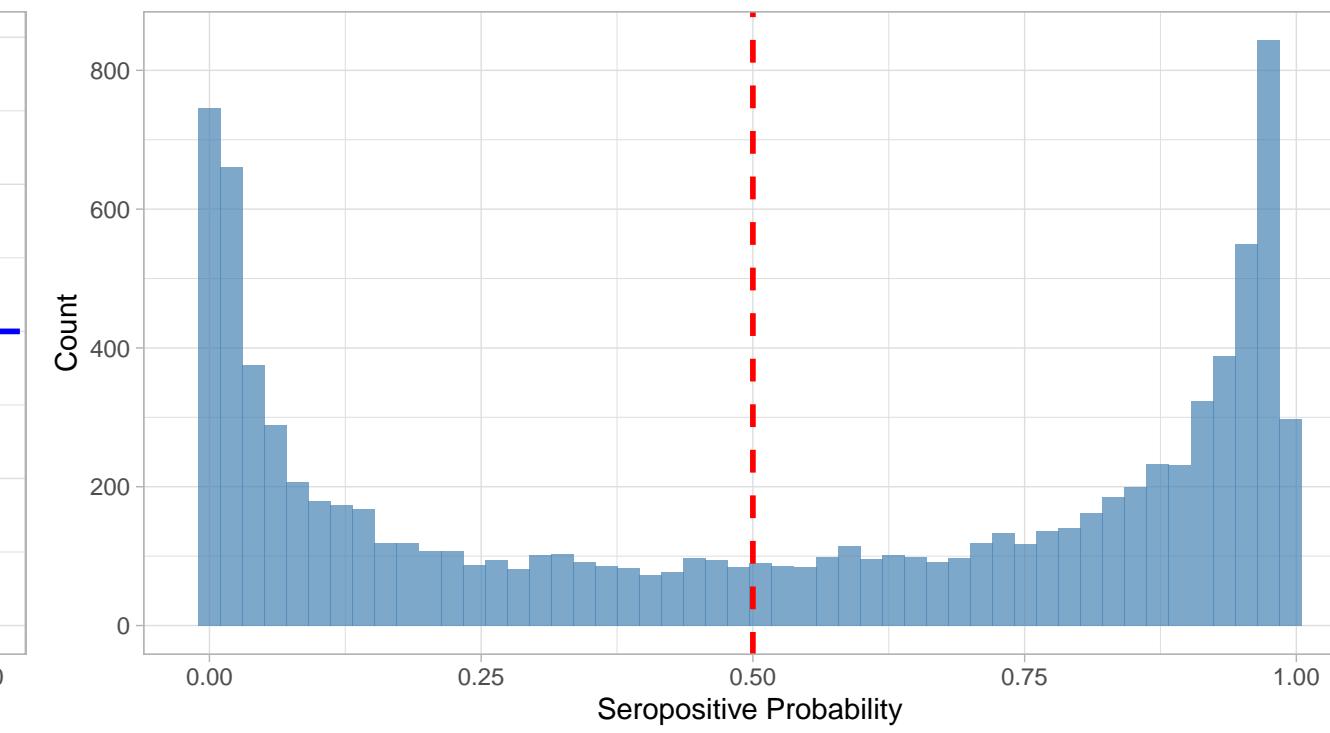
IgG Level vs Seropositive Probability: hhv7_u14

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



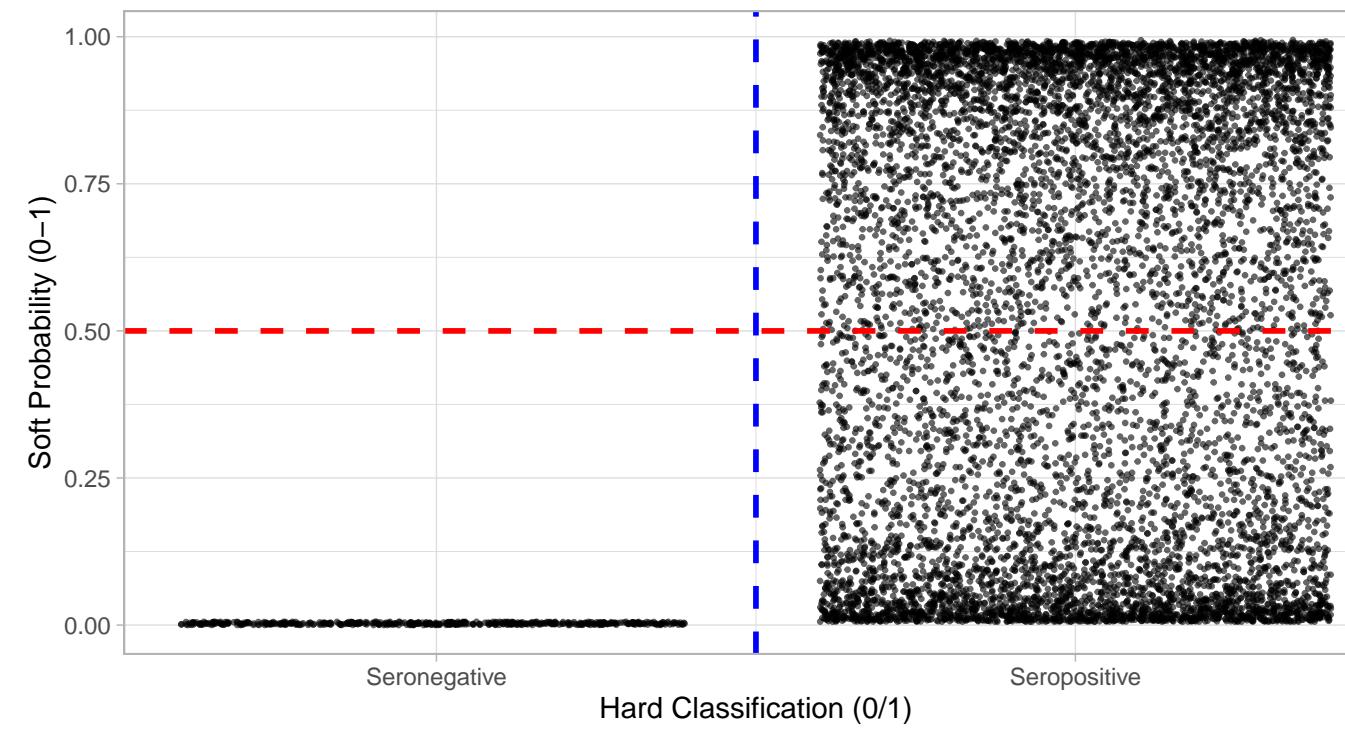
Distribution of Seropositive Probabilities: hhv7_u14

Red line = 50% threshold



Hard vs Soft Classification: hhv7_u14

Red line = 50% soft threshold, Blue line = hard threshold



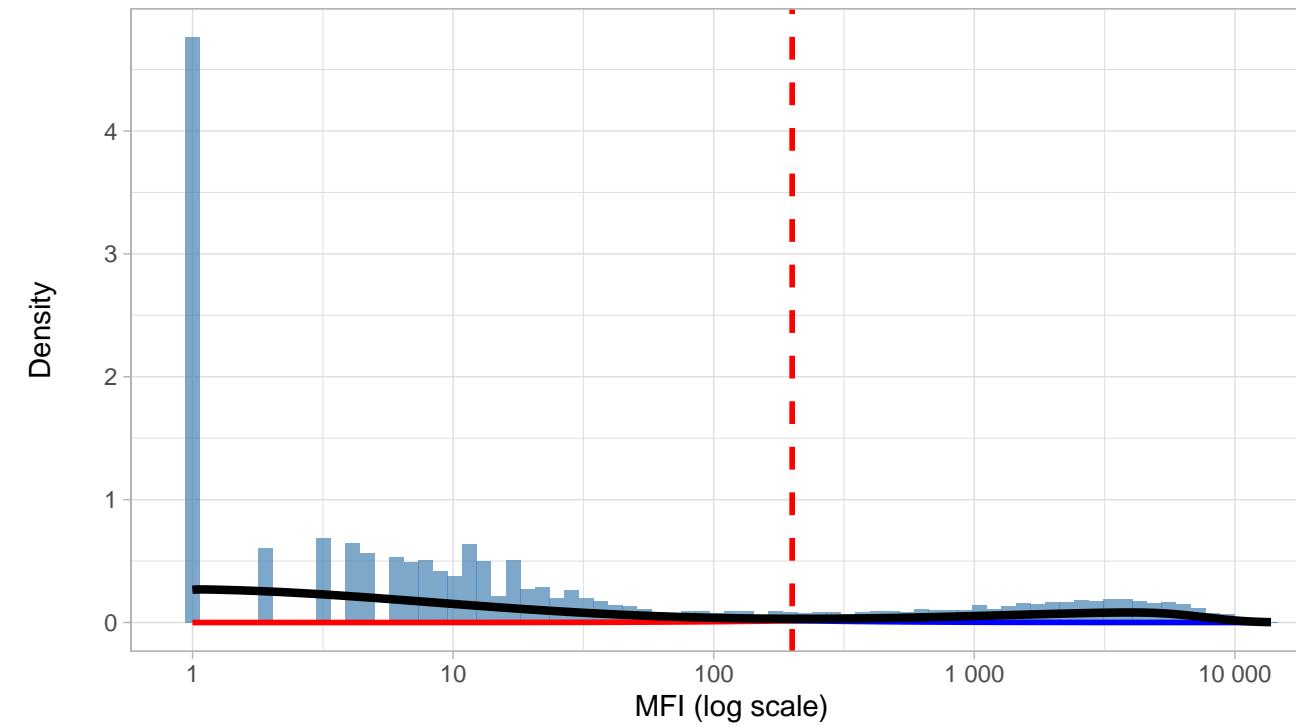
PC1 components not available

Diagnostics: ct_pgp3

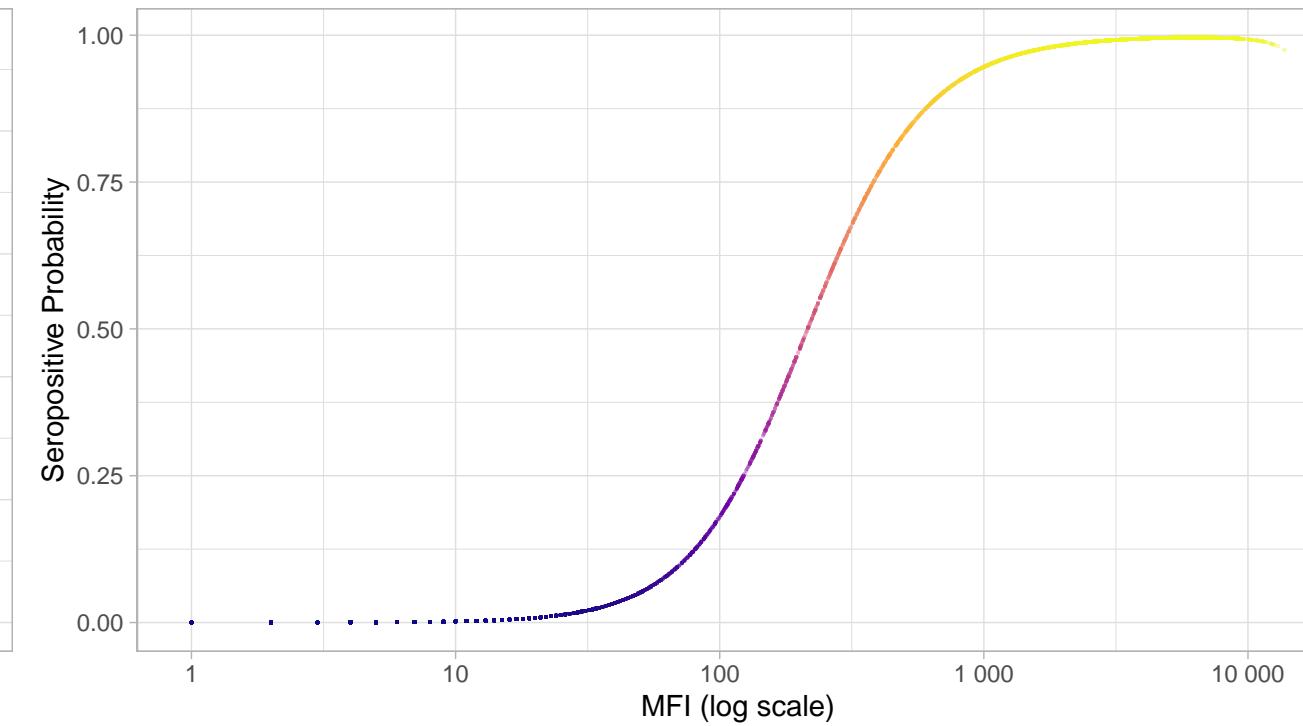
N=9424 | >0.95=1392 | <0.05=6906 | Ambig=1126

Original MFI Distribution: ct_pgp3

Hard cutoff threshold = 200

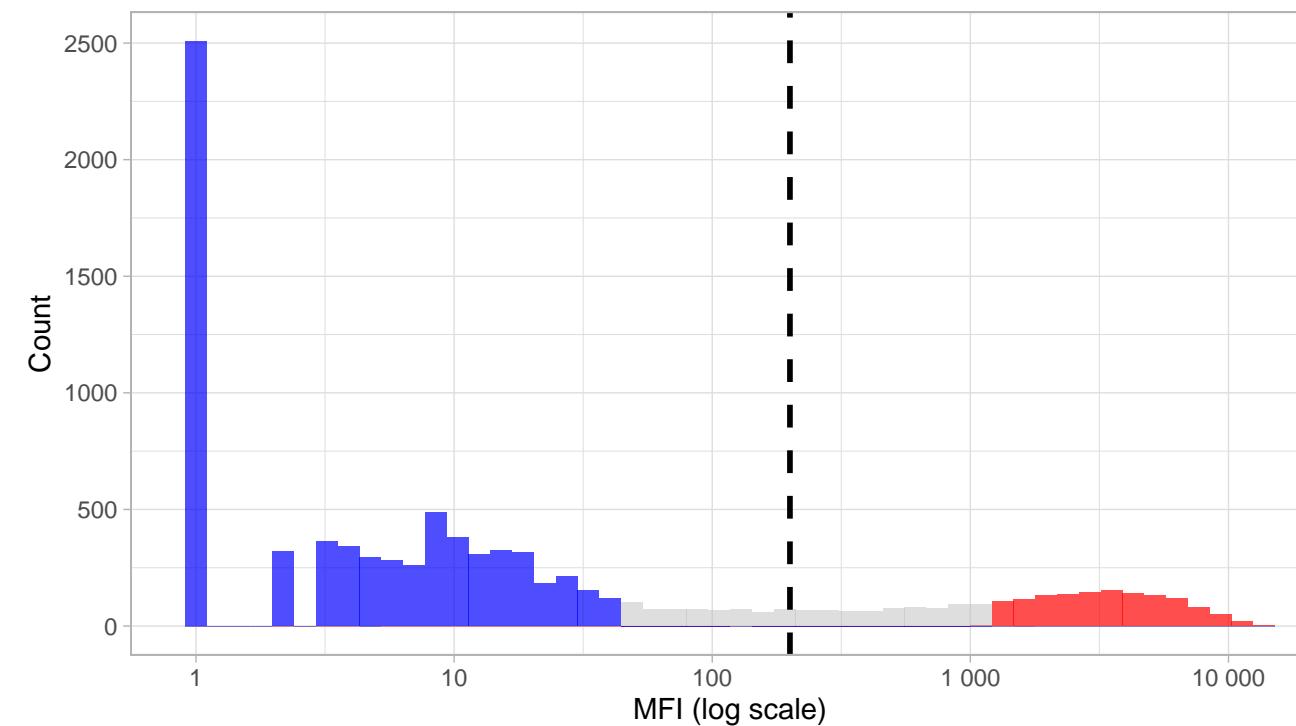


IgG vs Seropositive Probability: ct_pgp3



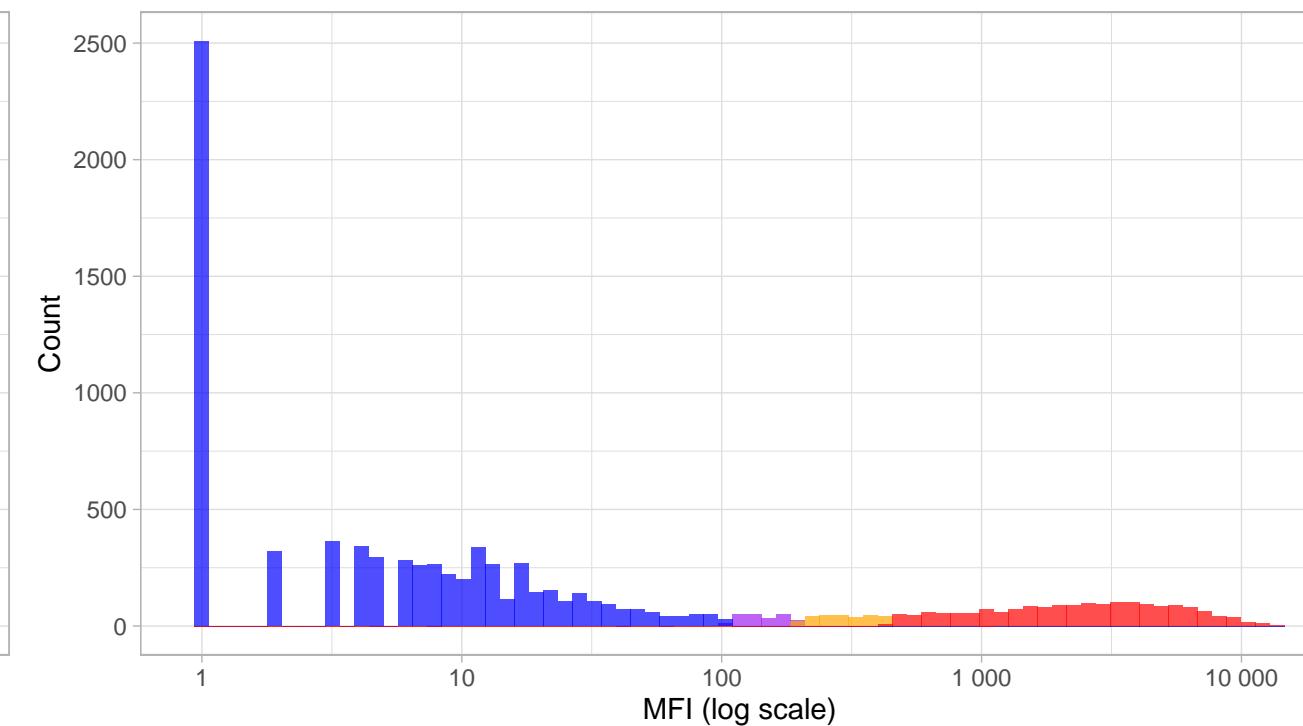
High-Confidence Seropositive Distribution: ct_pgp3

Prob threshold = 0.96



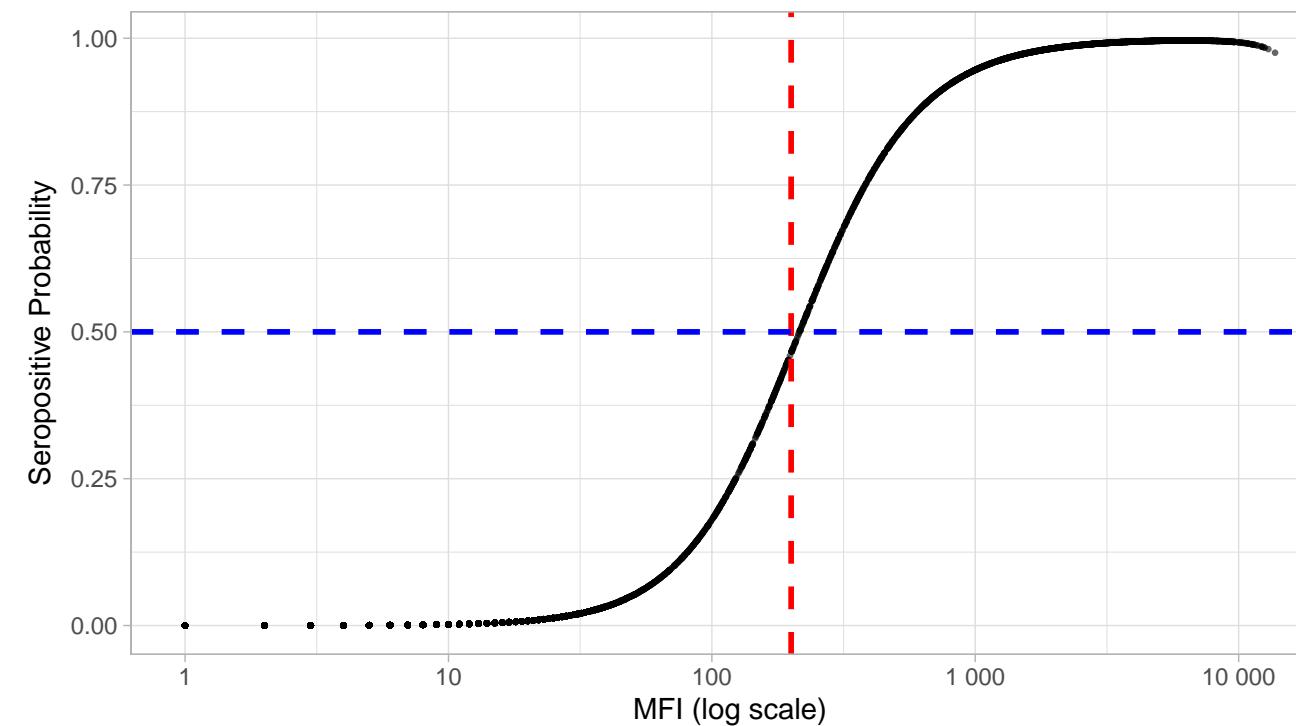
Phenotype Distribution by Classification: ct_pgp3

Comparing hard vs soft classifications



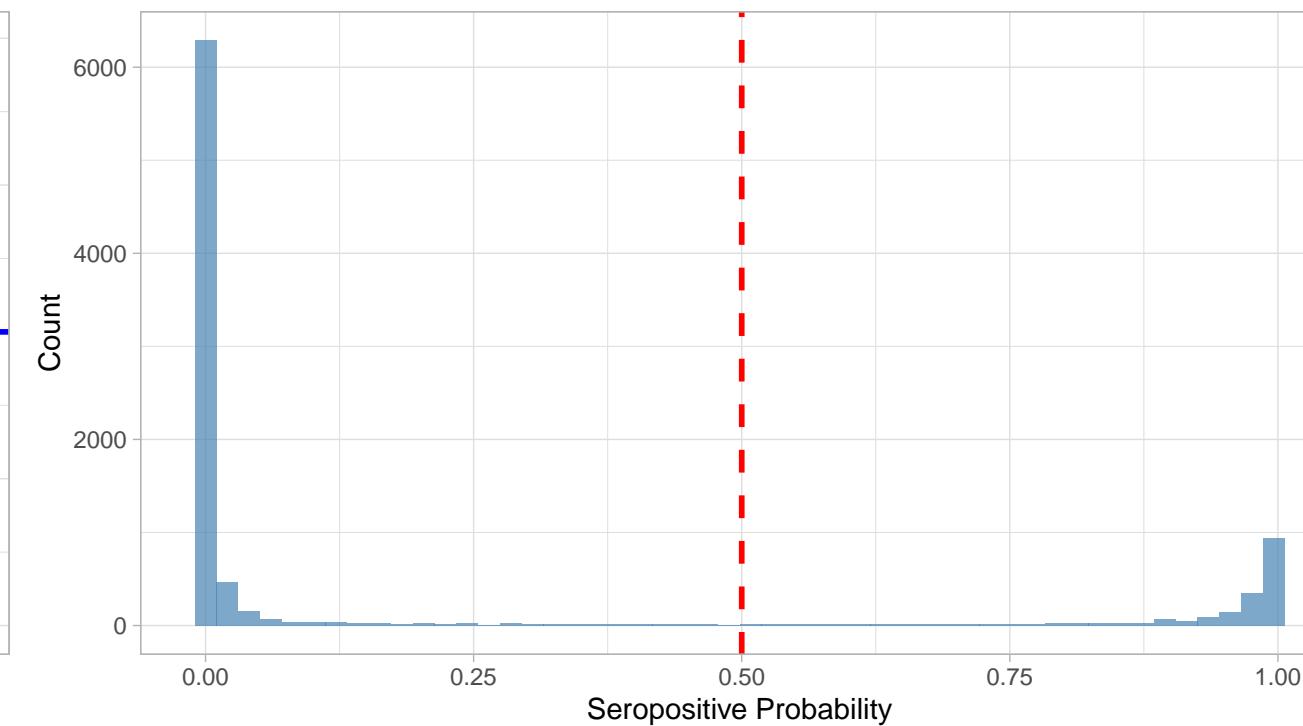
IgG Level vs Seropositive Probability: ct_pgp3

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



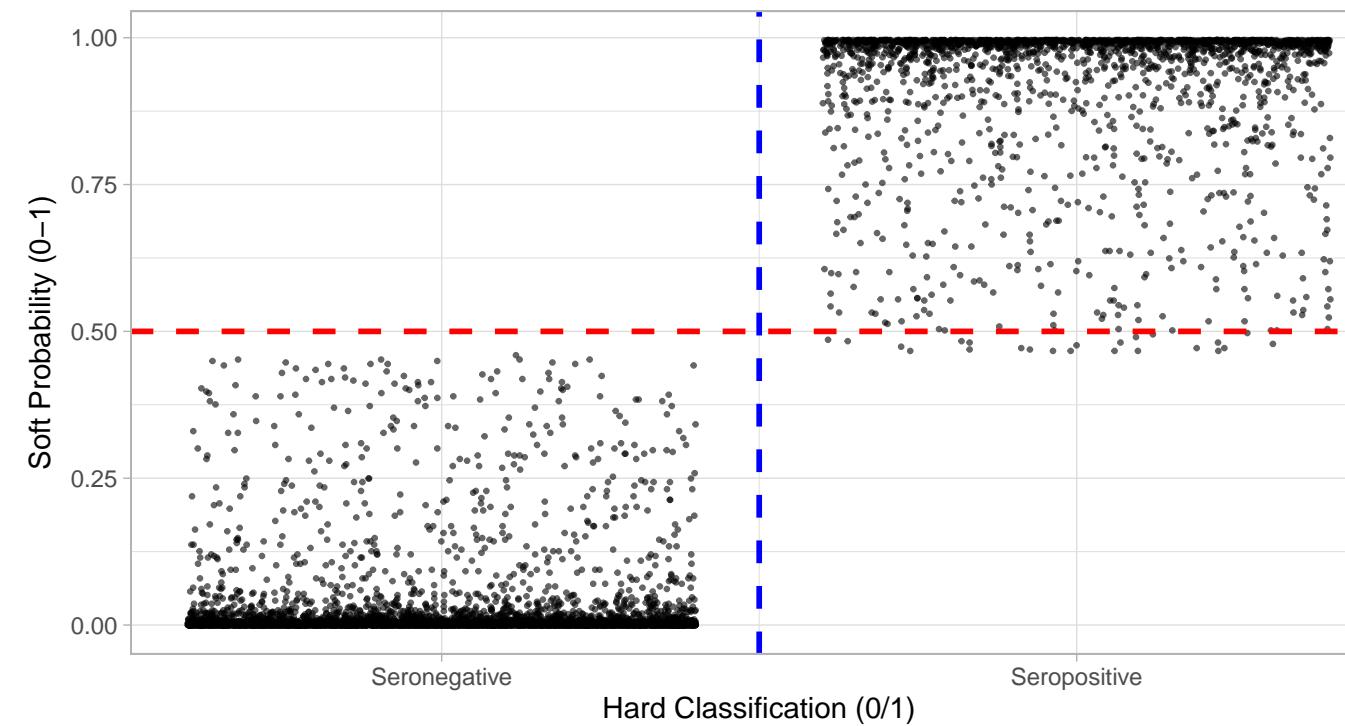
Distribution of Seropositive Probabilities: ct_pgp3

Red line = 50% threshold



Hard vs Soft Classification: ct_pgp3

Red line = 50% soft threshold, Blue line = hard threshold



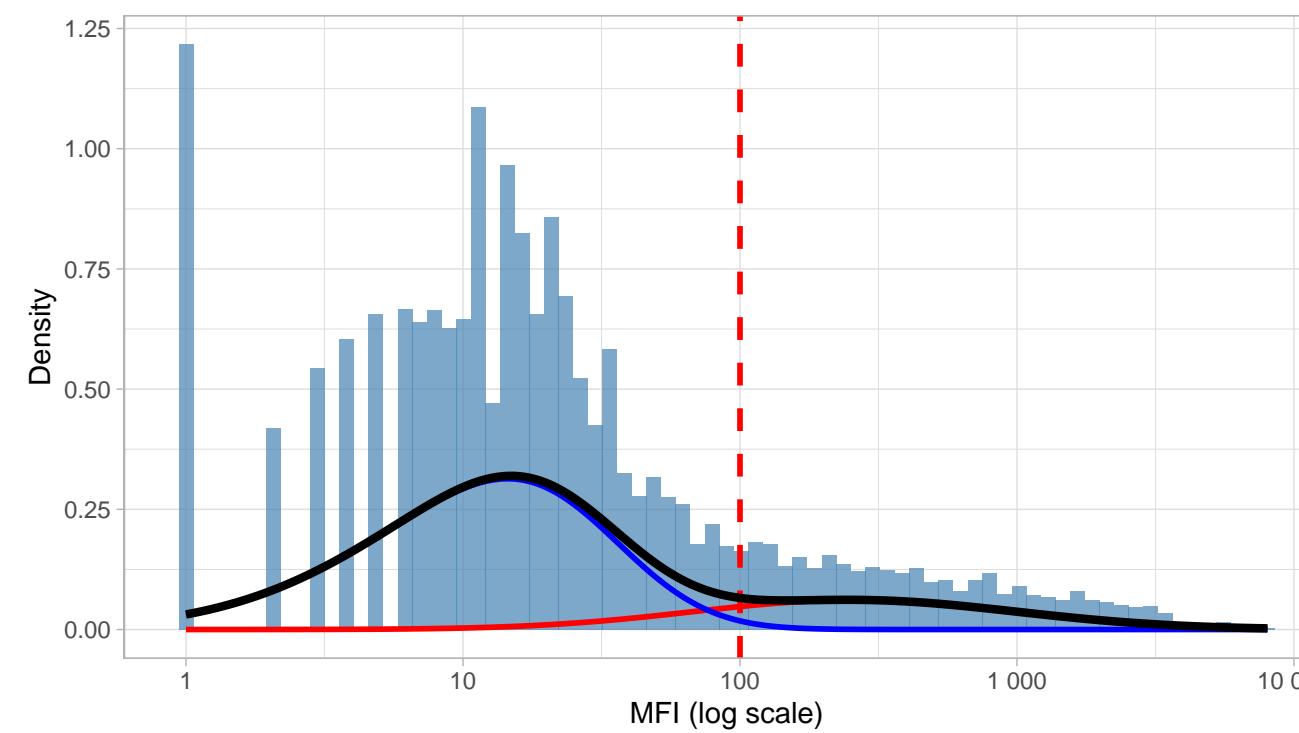
PC1 components not available

Diagnostics: ct_mompd

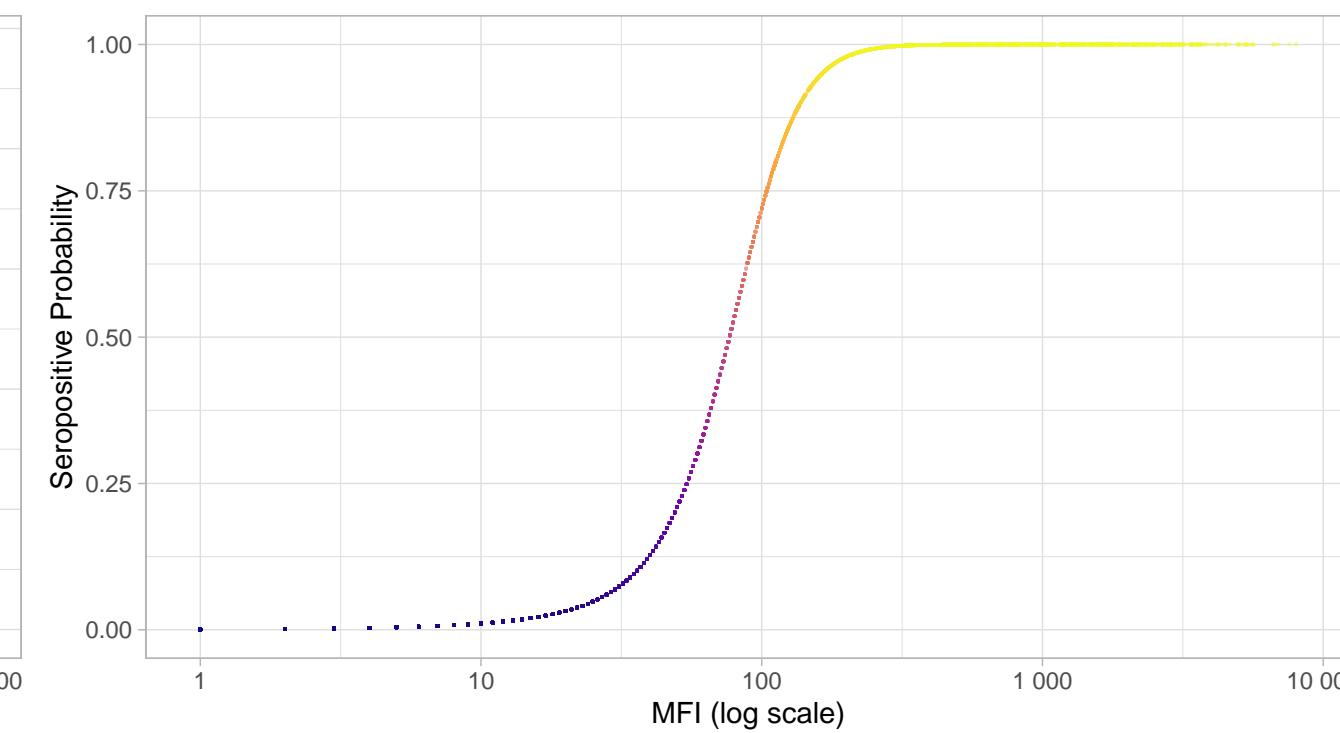
N=9424 | >0.95=1209 | <0.05=6083 | Ambig=2132

Original MFI Distribution: ct_mompd

Hard cutoff threshold = 100

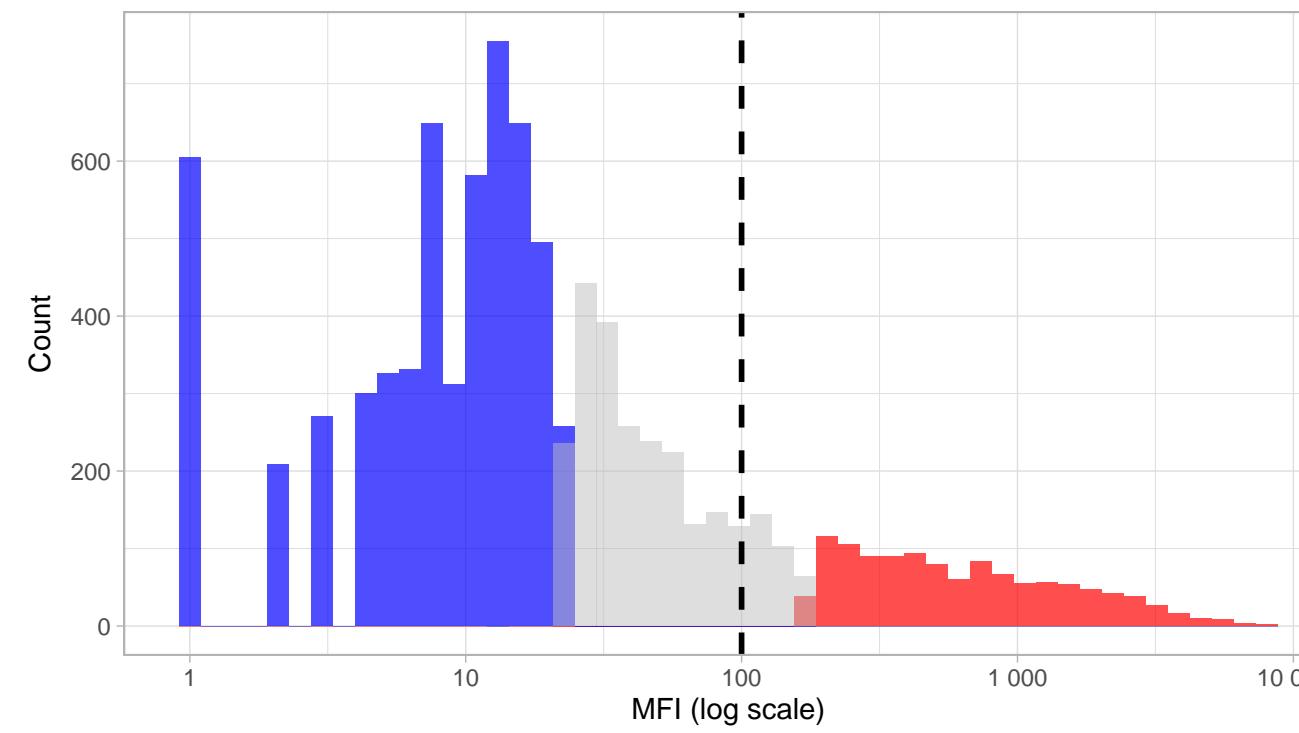


IgG vs Seropositive Probability: ct_mompd



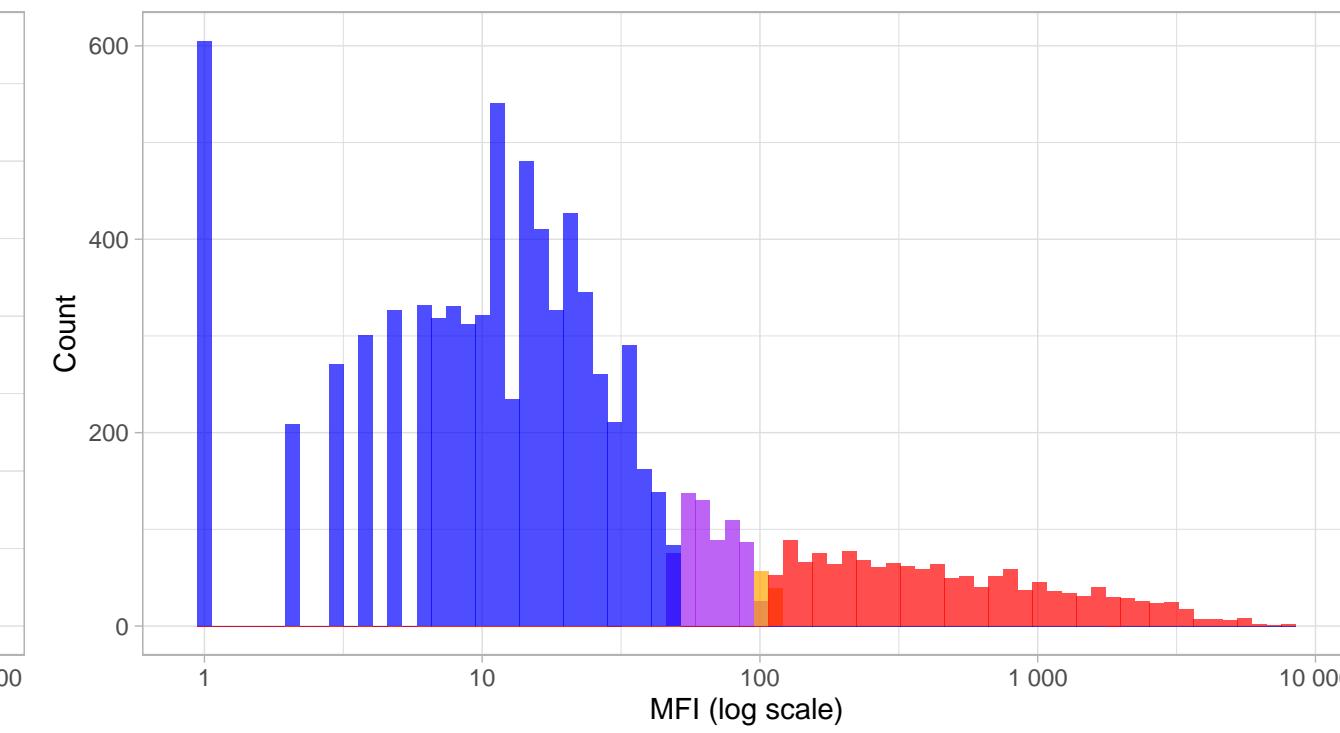
High-Confidence Seropositive Distribution: ct_mompd

Prob threshold = 0.96



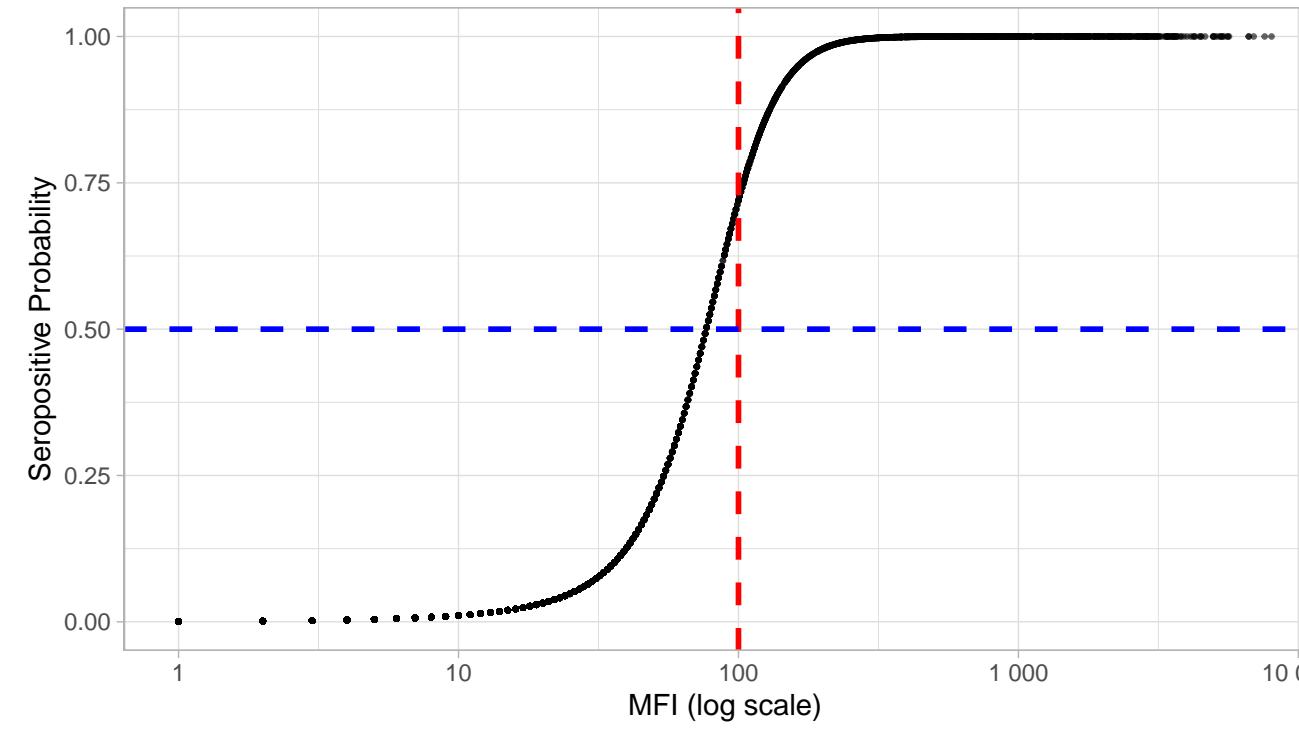
Phenotype Distribution by Classification: ct_mompd

Comparing hard vs soft classifications



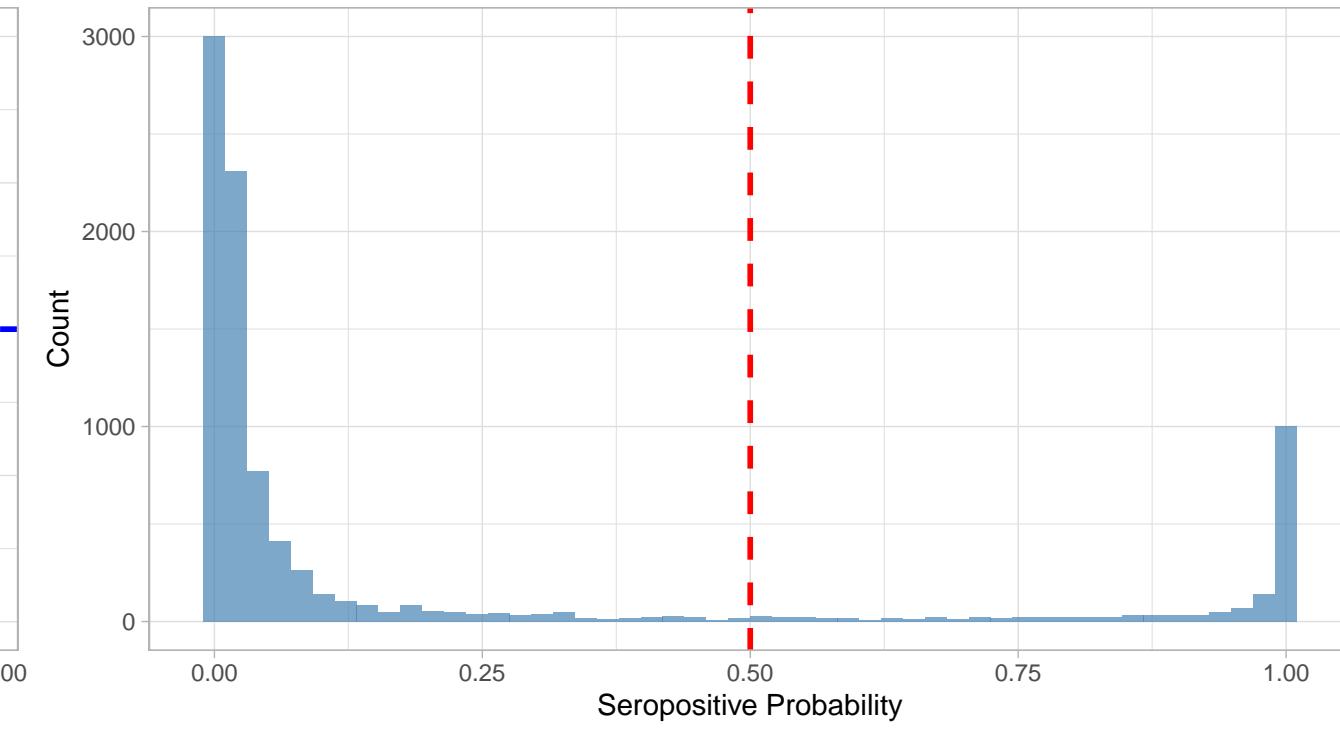
IgG Level vs Seropositive Probability: ct_mompd

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



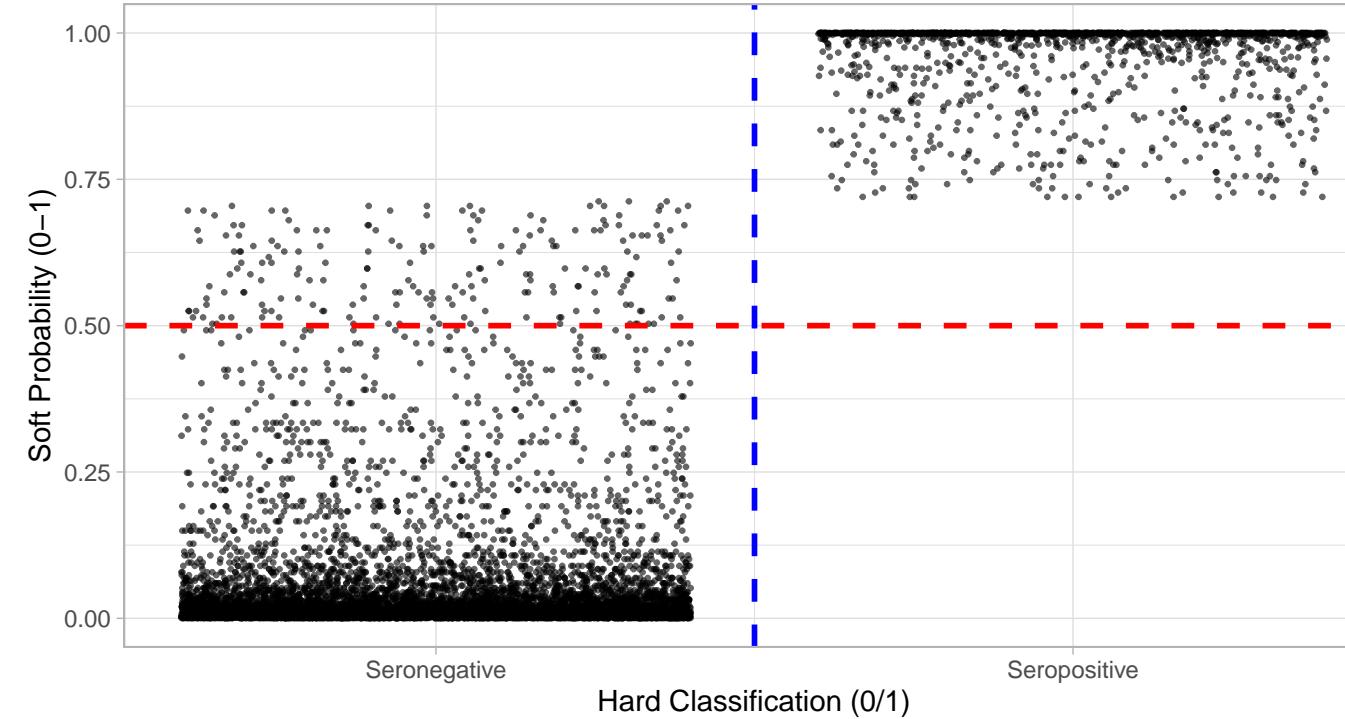
Distribution of Seropositive Probabilities: ct_mompd

Red line = 50% threshold



Hard vs Soft Classification: ct_mompd

Red line = 50% soft threshold, Blue line = hard threshold



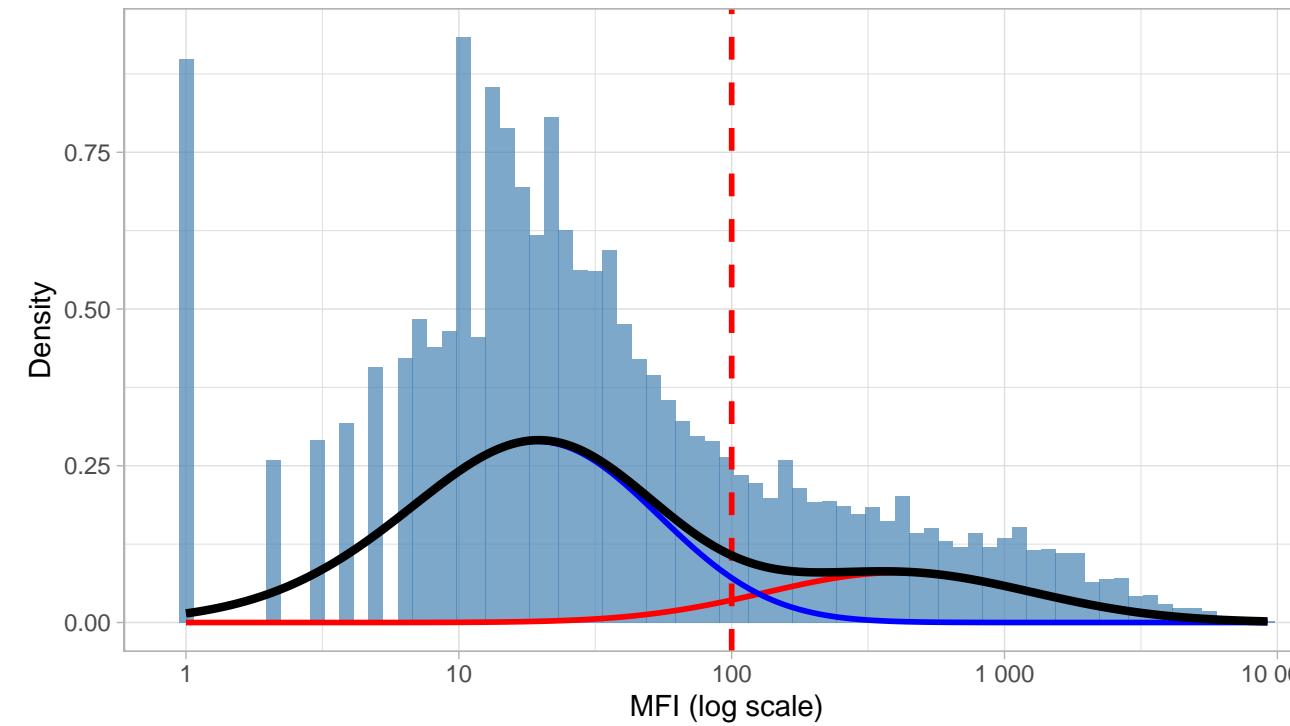
PC1 components not available

Diagnostics: ct_tarpf2

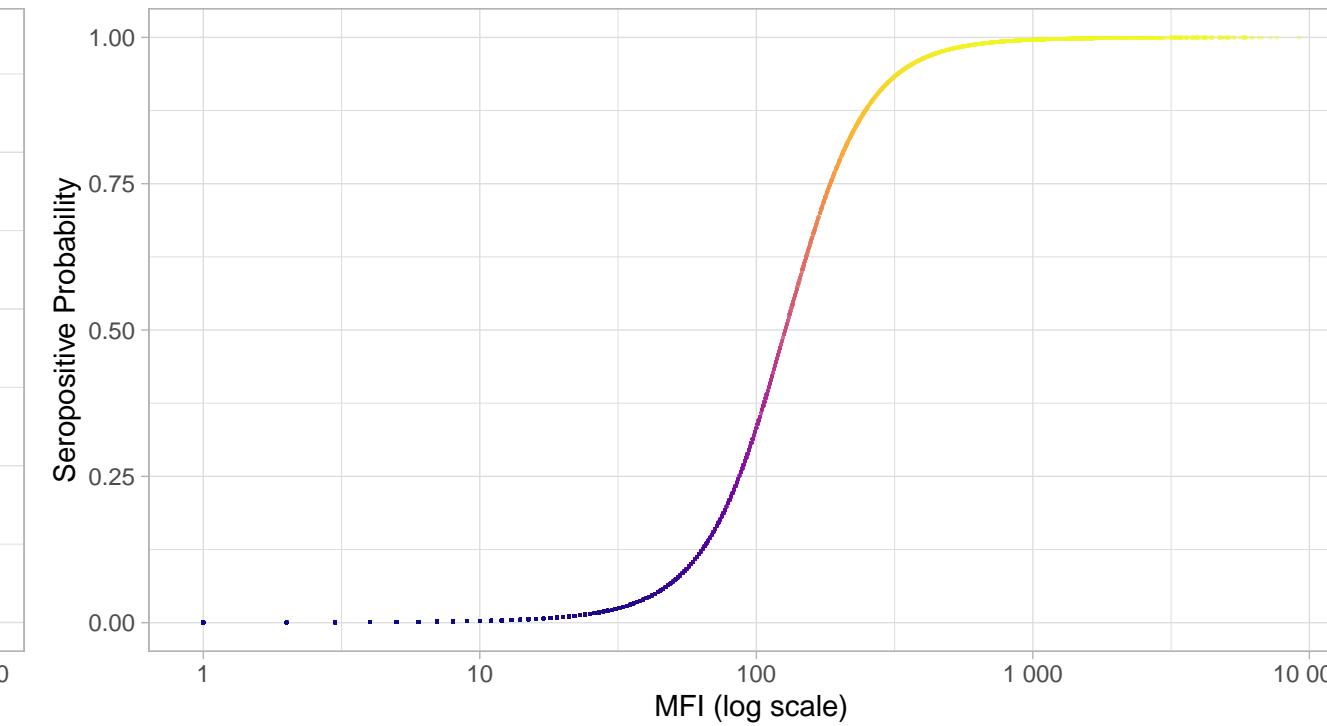
N=9424 | >0.95=1161 | <0.05=6036 | Ambig=2227

Original MFI Distribution: ct_tarpf2

Hard cutoff threshold = 100

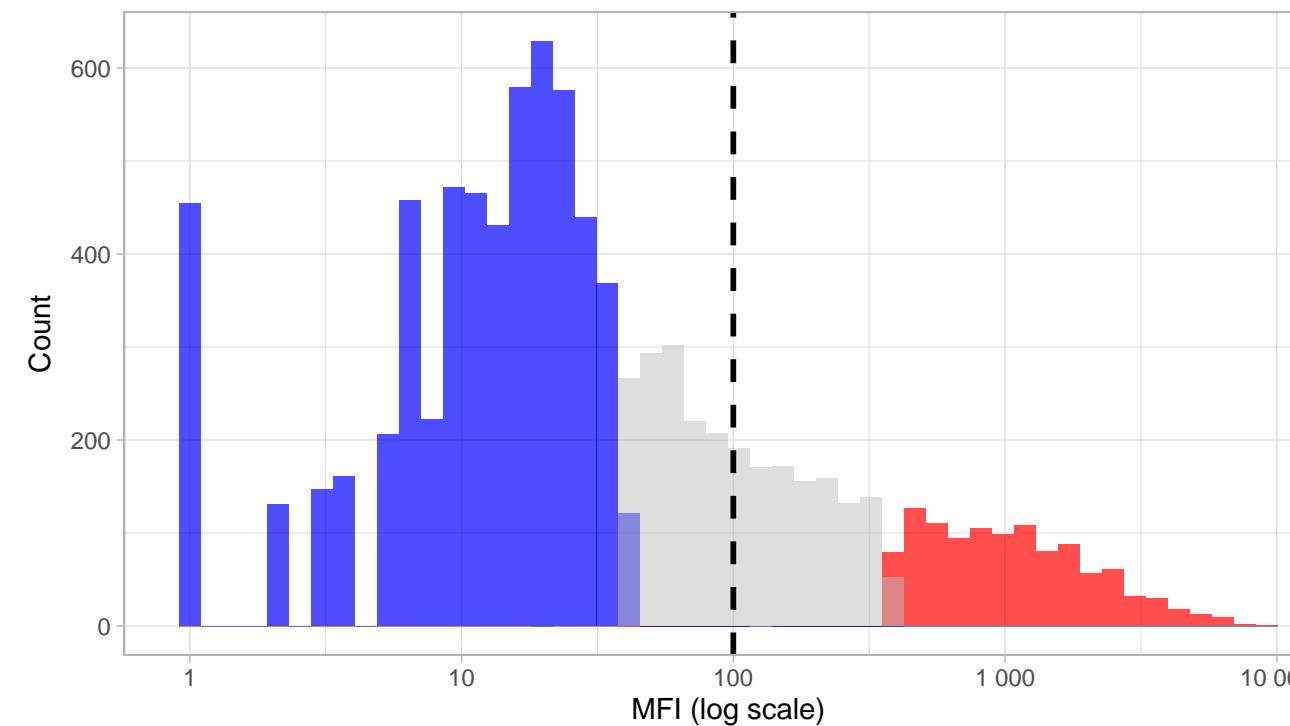


IgG vs Seropositive Probability: ct_tarpf2



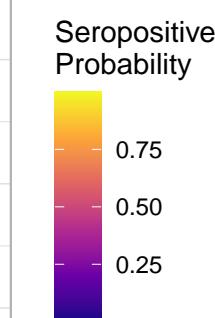
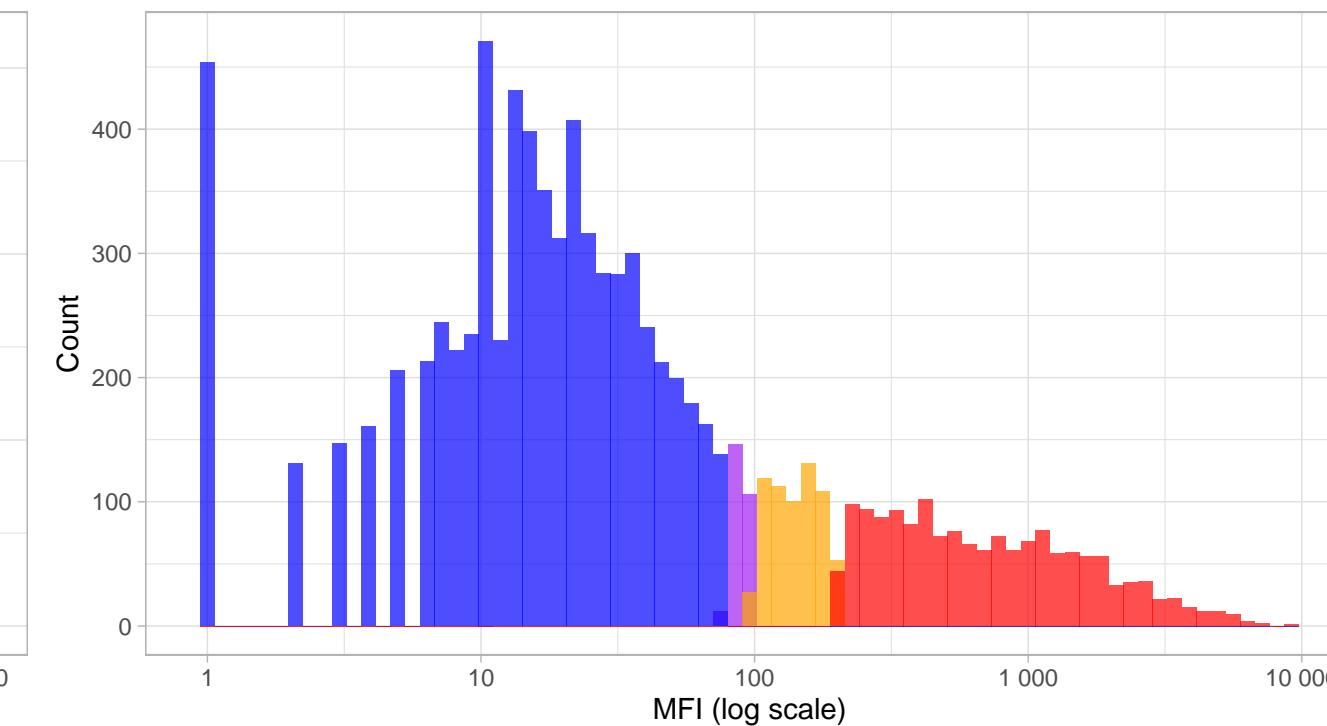
High-Confidence Seropositive Distribution: ct_tarpf2

Prob threshold = 0.96

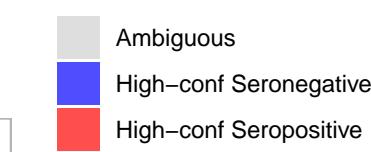


Phenotype Distribution by Classification: ct_tarpf2

Comparing hard vs soft classifications

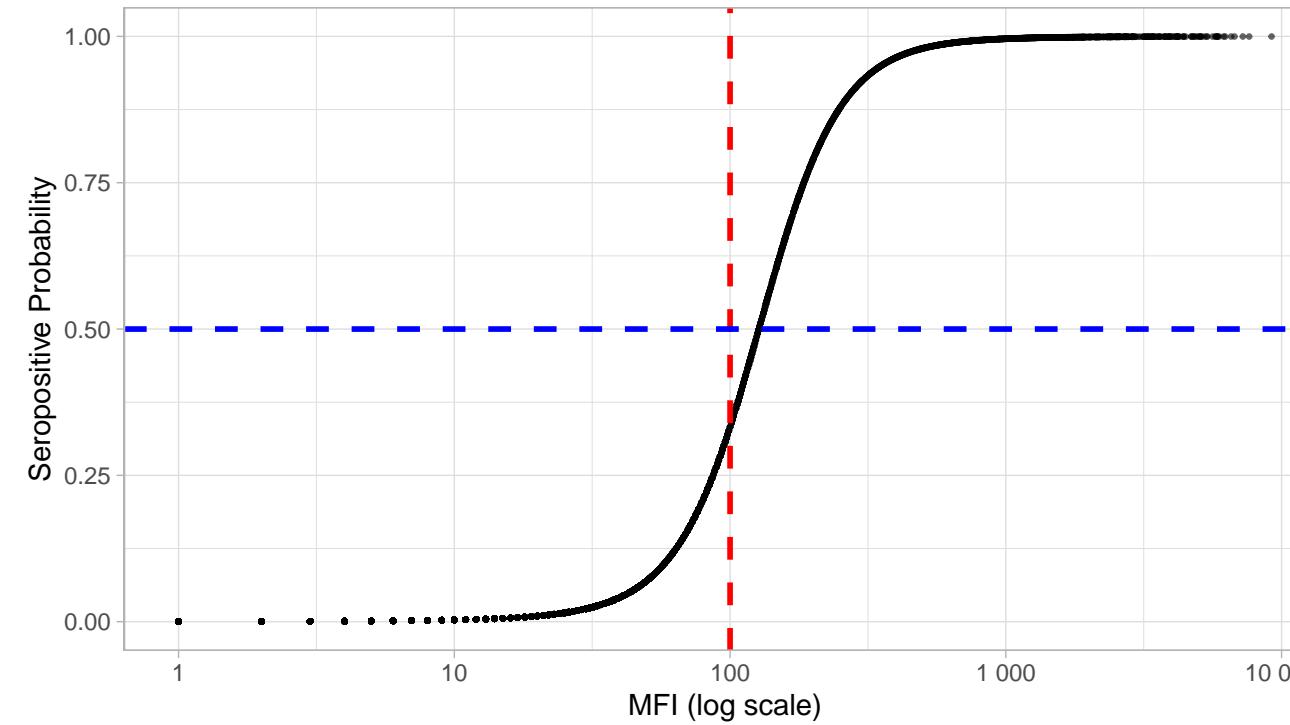


Classification



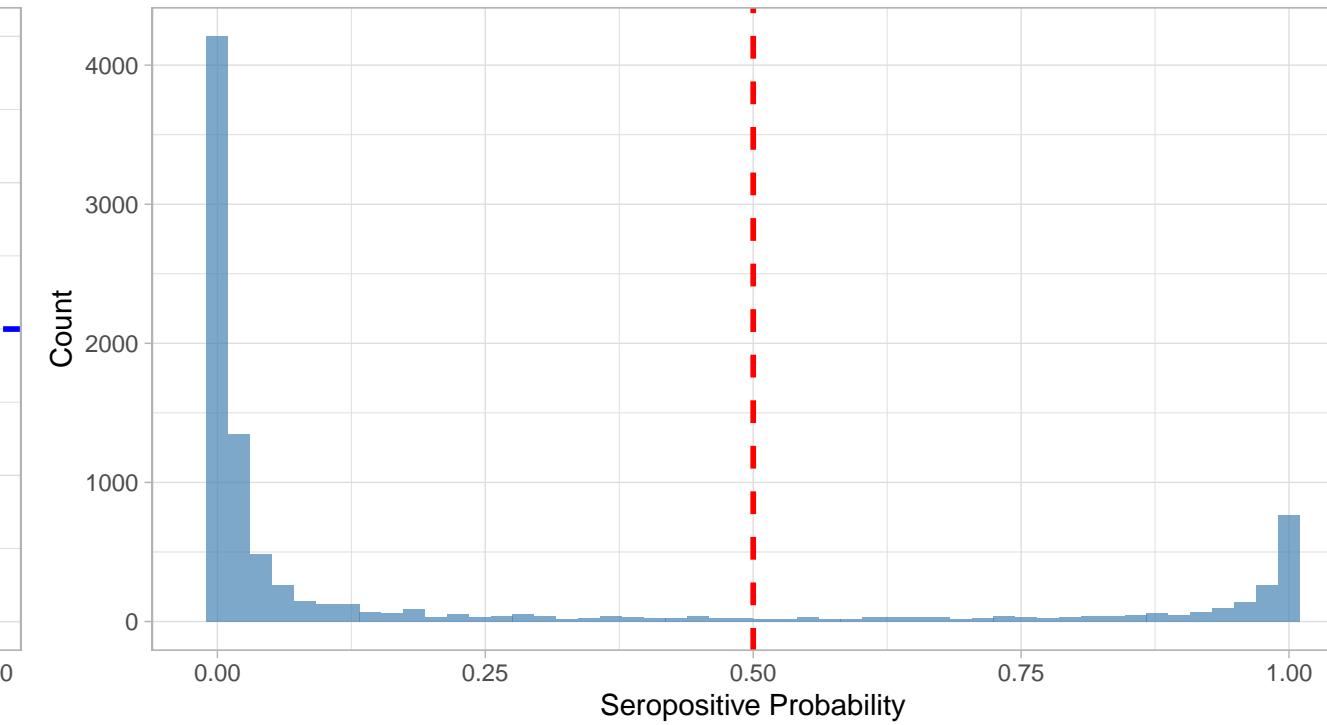
IgG Level vs Seropositive Probability: ct_tarpf2

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



Distribution of Seropositive Probabilities: ct_tarpf2

Red line = 50% threshold

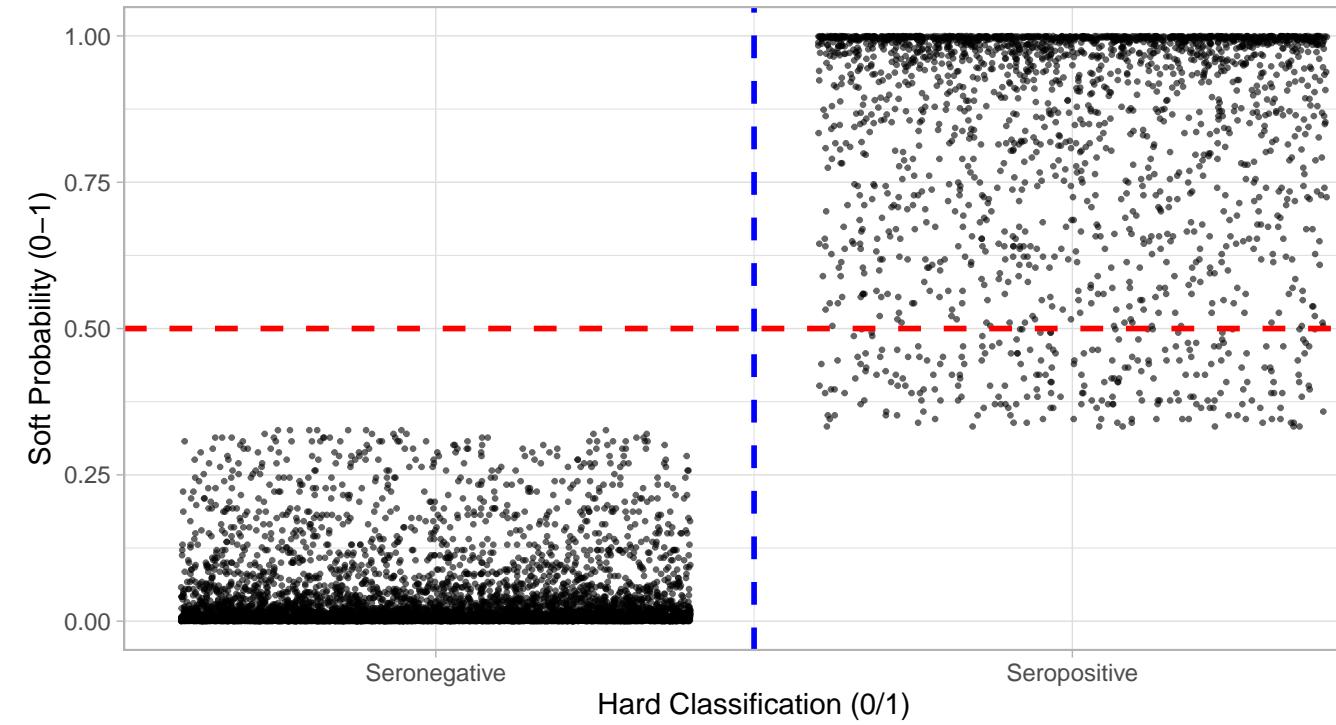


Classification



Hard vs Soft Classification: ct_tarpf2

Red line = 50% soft threshold, Blue line = hard threshold



PC1 components not available