

July 23-24<sup>th</sup>, 2021

HEU: P2  $\gamma\delta$  Cord + MAIT Panels Experiment #1

Specimen	Status	Location	Conc	Date	Tasks	Volume	Ly	Ly+M	Total	1.5E+6	2E+6
*8134 CQ644						~2ml	4.5E6	6E+6	9.0million	.333pl	~6wells
NY44						800pl	7.5E6	13E6	6million	~40pl 300k cells sel's	~30pl ~2.7M ~245pl ~2wells ~2wells

	Ex vivo MAIT-p1a	Surface $\mu$ L x 1
V450 BV421	Va7.2	2
V525 BV510	Aqua L/D	1:500
V670 BV650	Strep	1
	CD26	1
B530 FITC	CD4	1.8
B710 PerCPeF710	CD45RA	2 <i>~4wells amount</i>
Y590 PE	CD161	0.5
Y615 PE Dazzle	CCR7	1.5
Y780 PE Vio770	CD3	0.5
R670 APC	CCR6	2.5
R780 APCFire750	CD8	1.5
20.5 $\mu$ l/rxn;	PBS	7.2pl

Tetramer Test A 1:500	Ex vivo MAIT-p1a	Surface $\mu$ L x 1
V450 BV421	CD4	1.8
V525 BV510	Aqua L/D	1:500
V670 BV650	Strep	1
	CD26	1
B530 Alexa488 (FITC)	6FP7 5OP-RU	2pl (1:100)
B710 PerCPeF710	CD45RA	2
Y590 PE	CD161	0.5
Y615 PE Dazzle	CCR7	1.5
Y780 PE Vio770	CD3	0.5
R670 APC	CCR6	2.5
R780 APCFire750	CD8	1.5
20.5 $\mu$ l/rxn;	PBS	7.2pl

SP2A

00  
00  
00

MAIT P1a  
MAIT P1a  
+11 sel's.

~1.5mg/pl...

1:500

Staining Volume: 100pl

1:100 = 1pl

1:500 = 0.2pl

Dilution 1:100  $\rightarrow$  1pl + 9pl  $\uparrow$   
10pl  $\rightarrow$  (2pl)  $\checkmark$

FBS  
6x3=18  
2x4=8  
~30/15:15

5x8 = 40ml  $\rightarrow$  8pl 40ml  
3ml - 3pl horizon

6x3=18  
2.18

Need to make own stock FBS.

CD45RA MAIT panels #100  $\rightarrow$  surface  
02/24/2021 GR122  $\rightarrow$  fixperm

1:05pm  $\rightarrow$  Panels setup on software

RBC lysis  $\rightarrow$  added 1-2ml  
6:300 = 800pl  
1:10  $\rightarrow$  ...

② 13:46 Strep-FBS wash (2mls)  
① 1x wash enough or 2x  
TBD  $\rightarrow$  Fixing PFA-PBS  
Resuspend samples in 200pl...  
~1 1/2 hr time this weekend...  
2:00pm tetramers done.

Intracellular 14:15pm  $\rightarrow$  2:55pm  
5pm @ 2:53pm due to Cargene

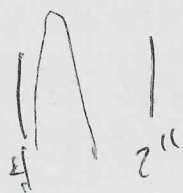
48392 R 54063 hMRI  
5-OP-RU  
Alexa488 1.5 mg/ml 2021-02  
1.0pl  $\rightarrow$  9pl.

① Sels made @ 11:30am

Spun @ 11:55am  
WBC @ 12:16pm  
Single color SC @ 12:26pm  
12:52 Surface stain  
Sels done 1:08pm  
13:18 cells post RBC lysis  
1 hour MAIT sitting + 5 minutes  
before added FBS-PBS  
MAIT Strep @ 13:31 4x 15min  
P2 CytFACS @ 1:33pm

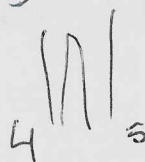
# Mat control setting

4615



pe. 1

4590



similar story 450-525

Mat Pin - 510 FSC.

... as soon as collected graphs revealed to squished

+ 1:500 what pop?





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Make as  
stbdi

June	Ex vivo Gd-p2	Surface $\mu\text{L}$ x 1	Intra $\mu\text{L}$ x 6.5
BV421	VD2	1	
BV510	Aqua L/D	1:500	
BV650	NKG2D	2	
Alexa 488 (FITC)	dg9	-	3
PerCPeF710	CD3	1.5	
PE	PD1	1.5	
PE Dazzle			
PE Vio770	NKG2A	0.6	
APC	VD1	1.0	
APC Fire750			
20.5 $\mu\text{L}/\text{rxn}$ ;	PBS	12.9	17.5 113.8

June	Ex vivo Gd-p2	Surface $\mu\text{L}$ x 1	Intra $\mu\text{L}$ x 1
BV421	VD2	1	
BV510			
BV650	NKG2D	2	
Alexa 488 (FITC)	dg9	-	3
PerCPeF710	CD3	1.5	
PE	PD1	1.5	
PE Dazzle			
PE Vio770	NKG2A	0.6	
APC	VD1	1.0	
APC Fire750	Horizon L/D	1:1000	
20.5 $\mu\text{L}/\text{rxn}$ ;	PBS	12.9	17.5

June	Ex vivo Gd-p2	Surface $\mu\text{L}$ x 1	Intra $\mu\text{L}$ x 1
BV421	VD2	1	
BV510	Aqua L/D	1:500	
BV650	NKG2D	2	
Alexa 488 (FITC)	dg9	-	3
PerCPeF710	CD3	1.5	
PE	PD1	1.5	
PE Dazzle			
PE Vio770	NKG2A	0.6	
APC	VD1	1.0	
APC Fire750	CD16	1	
20.5 $\mu\text{L}/\text{rxn}$ ;	PBS	11.9	17.5

June	Ex vivo Gd-p2	Surface $\mu\text{L}$ x 1	Intra $\mu\text{L}$ x 1
BV421	VD2	1	
BV510	CD3	1.5	
BV650	NKG2D	2	
Alexa 488 (FITC)	dg9	-	3
PerCPeF710	CD16	1.0	
PE	PD1	1.5	
PE Dazzle			
PE Vio770	NKG2A	0.6	
APC	VD1	1.0	
APC Fire750	Horizon L/D	1:1000	
20.5 $\mu\text{L}/\text{rxn}$ ;	PBS	13.4	17.5

June	Ex vivo Gd-p2	Surface $\mu\text{L}$ x 1	Intra $\mu\text{L}$ x 1
BV421	VD2	1	
BV510	Aqua L/D	1:500	
BV650	NKG2D	2	
Alexa 488 (FITC)	dg9	-	3
PerCPeF710	CD3	1.5	
PE	PD1	1.5	
PE Dazzle			
PE Vio770	NKG2A	0.6	
APC	VD1	1.0	
APC Fire750	CD56	1.0	
20.5 $\mu\text{L}/\text{rxn}$ ;	PBS	11.9	17.5

June	Ex vivo Gd-p2	Surface $\mu\text{L}$ x 1	Intra $\mu\text{L}$ x 1
BV421	VD2	1	
BV510	CD3	1.5	
BV650	NKG2D	2	
Alexa 488 (FITC)	dg9	-	3
PerCPeF710	CD56	1.0	
PE	PD1	1.5	
PE Dazzle			
PE Vio770	NKG2A	0.6	
APC	VD1	1.0	
APC Fire750	Horizon L/D	1:1000	
20.5 $\mu\text{L}/\text{rxn}$ ;	PBS	13.4	17.5

R2 Adjusted R620 / R780 up. Not much < 1>

R780 pretty low. BUH21 + PE really high <sup>voltage</sup> geek

V450 VS10 very close as eu

drift PE Pdazzle.

geek U670 huge! (resd?)

\* ( Started running panel 2 @ 1:14 ( so 42:17 ) \*

switched FSC up to 530\* For Aqua

running around 5000 cts/sec.

Aquabi - NR620 squished (U670), similar for <sup>B530 Y590</sup> dg 9 + PDI?

resuspended in 200 $\mu$ i  
~ 2 minutes

NR62A Y780 off map  $\leftarrow$  both upped on scale ( $10^3 - 10^3$ )  
L/O balls messy 925.

AquaB - VD2 (450) ~~###~~ at  $10^0$  vs LD3  
squished NR620

moved FSC back to 520

? should've set L/O  $\Delta$  comp for Aqua/Itizen?

\* - Y590 PDI + CD16 showing stringers\* + NR62A

Aquac: NR620 squet. CD56 blur.

Horizon A - very clean: NR620 not as squished

Horizon B  $\rightarrow$  dg9 off comp <sup>B530</sup> <sup>B710</sup> CD16 also off

Try other clone?

= weird clash on VD2 CD3 - cars, stringers,...

Horizon C  $\rightarrow$

(B530 Y590 clash?  
B710)  
 $\nwarrow$  compensation off

VD2 // not good...