

David's Copy

Quarantine

May 12-13th, 2022

Spectral Panel Optimization #1

Specimen	Status	Location	Conc	Date	Tasks	Volume	Ly 1:100	Ly+Mon	Total	2E+6	1.5E+6
Info 97-6 a-2	R43N HU	Box 3A I1				3 ml	3.46E6	5.41E6	10.38	578pl	433pl

HU Info 97 (complete sets → 9 vials) Box 3A, Row I, Col 1, 2
 FM CQ1047 8625 5AE1

IL15 PMA ctrl ctrl
 Full Panel
 Excl. tetramers

LMRL - 50PRU (ps) ✓
 GFP (inert)
 hcdid * cord blood
 hcdid - PBS-57 (lipid)

9:35 → DNase I
 1:45
 10:11 cell count start

Va 7.2 next

Va 24 Ja 18 next

0 0 0 2M

(6) Unmixing (compensation for)

Unstained Controls
 300K
 PMA ctrl

(for each new
 ctrl → Ghr →
 PMA

unstained control 300
 ctrl 300
 -PMA 300

2 pl PMA x 2 = 4 pl
 800 pl (810 pl)
 2 pl ctrl Galxi x 3 = 6 pl
 1200 (1215 pl)

2 PMA wells 3 ctrl
 578 pl cells 20 pl
 400 pl R10 + PMA (2) [1]
 + ctrl (2) [2]

400 72 400 72 400 72
 528 pl

11:51 AM PMA

200 pl + 300 pl R10
 + .77 PMA [1]
 + .77 galxi [2]

250 pl 250 pl 150 pl
 700 1.4 500 1.8 1.4

Reagents done prep @ 3:49 pm

Handwritten notes at the top of the page, including the date "10/10/10" and some illegible text.

Main body of handwritten notes, consisting of several paragraphs of text that are mostly illegible due to fading.

Bottom section of handwritten notes, including a list of items or a table with multiple columns and rows of text.

#	Filter	Single color (ui)	Ref ctrl	Unmixing ctrl name	Fluorochrome	Marker	Clone	Vial Lot #	During stimuli	3	L/D 15 min (RT)	Tetramer (RT) for 40 min	37°C (RT) for 30min	3	Surface staining 4°C for 30min	3	Lysing, then Cytofix/Perm	Intra mixRT for 40min intra mix	3
1	UV2				BUV395	CD62L	(DREG-56)								1.2	3.6			
2	UV7				BUV496	CD8	(RPA-18)								0.7	2.1		0.25	0.75
3	UV9				BUV563	CD69	(EN50)								2.0	6		0.25	0.75
4	UV10				BUV615	CCR4	(1G1)								0.7	2.1			
5	UV11				BUV661	Vβ2	(86)												
6	U14				BUV737	CKCR3	(1C6/CKCR3)						2.5	7.5					
7	UV16				BUV805	CD4	(SK3)								1.5	4.5		0.25	0.75
8	V1				BU421	CD127	(A019D5)		0.8	2.4					1.0	3.0			
9	V3				Pacific Blue	CD14	(M5E2)								2.0	6.0			
10	V3				Pacific Blue	CD19	(H1B19)								2.0	6.0		0.5	1.5
11	V5				BU480	CD161	(REA631)		0.8	2.4			1	3					
12	V7				BUV510	CD45RA	(H1100)								0.7	2.1			
13	V10				BUV605	CD56									0.7	2.1			
14	V11				BUV650	CCR7			0.8	2.4					1.0	3			
15	V13				BUV711													1.5	4.5
16	V14				BUV750	IFNγ	(B27)												
17	V15				BUV786	CCR6	(11A9)						1.8	5.4					
18	B2				Alexafluor 488	hCD1d					<1.750> (0.2)				1.2	3.6		0.25	0.75
19	B3				Spark Blue 550	CD3	(SK7)								1.0	3.0			
20	B4				PE	NKG2D													
21	B6				PE-CF594	CD26	(M-A261)						1.2	3.6				0.25	0.75
22	B8				PE-Cy5	CD25	(M-A251)								1.2	3.6		2.5	7.5
23	B10				PerCP-Cy5.5	TNFr	(MAB31)												
24	B13				PE-σ6770	PD1									1.5	4.5			
25	R1				APC													1.5	4.5
26	R2				Alexa Fluor 647	hMRL													
27	R4				APC-R700	CD107a	(H4A3)		6.0	18		<1.500> (5)							
28	R6				Zombie NIR	L/D					<1.2500>								
29	R7				APC/Fire 750	CD27	(O323)						2	6					
30	R8				APC/Fire 810	CD38	(H172)						1.6	4.8					
Antibody Total										8.4	25.2	Antibody Total	12.1	36.3	16.4	49.2	7.25	21.8	
R10 Media										12.1	36.3	Brilliant Stain	50	150	50.0	150	50	150	
Pipette draw volume /sample										19.5		Pipette draw volume /sample	61		65.4		56.25		
And UNSTAINED CONTROLS !!!																			

Notes:

Simplified protocol

Aliquot cells 2.0E+6 Cells/tube
 Raise R10 + cell volume to 500 μ l
 Add 500 μ l of PMA-Ionomycin/Ctrl
 Incubate 6 hours @37C

Wash with 2 ml PBS, 1400 rpm, 6min

800 μ l Live/Dead @RT for 15min

Wash 2 ml 5% PBS-FBS 1400 rpm, 6min

Add Tetramers, incubate @RT for 40min

Wash 2 ml 5% PBS-FBS 1400 rpm, 6min

Add hot Surface mix, incubate @37C for 30 min

Wash 2 ml 5% PBS-FBS 1400 rpm, 6min

Add cold Surface mix, incubate @ 4C for 30min

Add 300-500 μ l 1x RBC lysis for 3 minutes

Wash 2 ml 5% PBS-FBS 1500 rpm, 6min

300 μ l Cytofix/perm, incubate @ 4C for 20min

Wash twice 1 ml PermWash 1500rpm, 6min

Add Intra Staining, incubate @RT for 40min

Wash once w/ 2ml Perm Wash

Resuspend 100 μ l 0.4% PFA-PBS, store 4C

2 ml FBS
 2ml FBS
 2ml FBS
 2ml FBS

27 colors

#	Filter	Fluorochrome	Marker	Code	Conc	Manufacturer	Catalog #	Cell location	Abundance	Lot #	Control type	Fixed	Condition	Panel id	Panel brightest MFI	Total #	Single color (ul)	Negative MFI	Comments	Reference Library Name
1		BUV985	CD62L	CD62L	(DREG-56)															
2		BUV486	CD8	CD8	(PPA-18)															
3		BUV663	CD69	CD69	(F750)															
4		BUV615	CCR4	CCR4	(1G1)															
5		BUV661	Vβ2	Vβ2	(B6)															
6		BUV737	CCR3	CCR3	(1G6/CCR3)															
7		BUV605	CD4	CD4	(SK3)															
8		BUV621	CD127	CD127	(A01B05)															
9		Pacific Blue	CD4	CD4	(M5E2)															
10		BUV60	CD161	CD161	(R6A531)															
11		BUV310	CD38A	CD38A	(H100)															
12		BUV605	CD56	CD56				Surface Abundant												
13		BUV750	IFNγ	IFNγ	(B27)															
14		BUV786	CD86	CD86	(11A6)															
15		AlexaFluor 488	hCD1d	hCD1d																
16		Spark Blue 550	CD3	CD3	(SK7)															
17		PE	hK620	hK620																
18		PE-CF594	CD26	CD26	(M-2A2)															
19		PE-CF5	CD25	CD25	(M-2S1)															
20		PerCP-CF5.5	TNFR	TNFR	(MAB1)															
21		PE-A6770	PD1	PD1																
22		Allophycocyanin 647	hMFI	hMFI																
23		APC-CF700	CD107a	CD107a	(H4A3)															
24		Zombie NIR	LD	LD																
25		APC/hla 750	CD27	CD27	(O323)															
26		APC/hla 810	CD38	CD38	(H17)															
27		BUV550	CCR7	CCR7																
28																				
29																				

Unspliced CD107a
both sides

CD2
127
CD56

PMV

CD1

CD1

CD21b

CD1

CD24

CD1

CD1

CD1

CD1

CD1

CD1

CD1

CD1

CD1

CD1

CD1

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CD1

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CD1

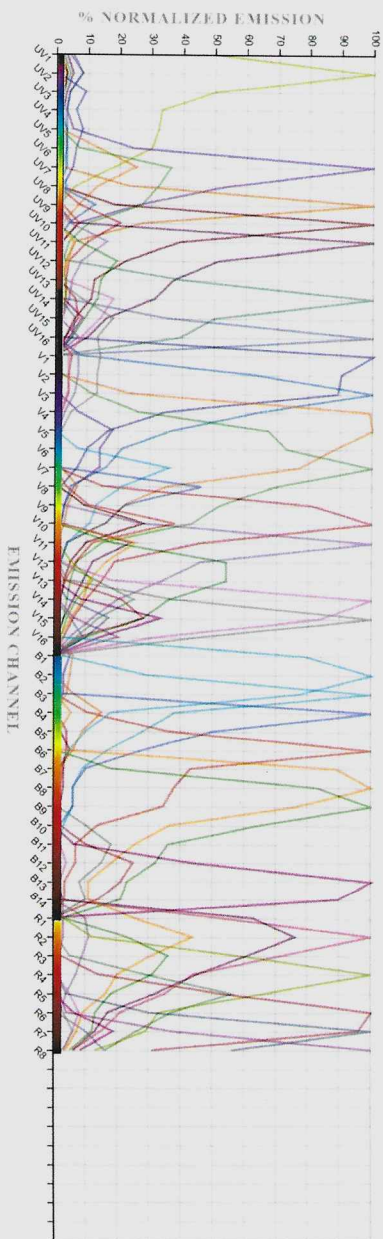
CD1

CD1

CD1



Preliminary ILT Panel



■ BUV395	■ BUV496	■ BUV563	■ BUV615	■ BUV661	■ BUV737	■ BUV805
■ BV421	■ Pacific Blue	■ BV480	■ BV510	■ BV605	■ BV650	■ BV750
■ BV786	■ Alexa Fluor® 488	■ Spark Blue™ 550	■ PE	■ PE-CF594	■ PE-Cy™5	■ Alexa Fluor® 647
■ PerCP-Cy™5.5	■ PE-Vio®770	■ APC-R700	■ Zombie NIR™	■ APC-Fire™ 750	■ APC-Fire 810	

Preliminary ILT panel

Flexity™ Index: 9.44

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L/D Aqua (1:500) 2:1000 → 1.5 - 2M cells/l

\$0.100 500 μ l → 0.050 * 3.46 = 170K

L/D @ 12:32pm
→ 47pm

1/14/20 : 500 μ l PBS

2 μ l : 1000 → 800 μ l cells 1.5 - 2M

1.6 μ l →

400 ~~800~~ 800 μ l 200 μ l

200

800

1000
(1000 μ l)

200 μ l

250

500 800 μ l
60 100
700

500 800
200

1:8
1:4

3 ml 5% FBS-PBS

Per Sample

3 ml Perm Wash (water)

8x9 = 72 μ l 5% FBS-PBS
9x9 = 81 μ l Perm Wash

10x

RBC lysis

13 300 μ l * 3 = 10

3.900 μ l 3.000 μ l

400 μ l 10x RBC
3000 μ l Water

000

3 samples

4 obs

5:49pm centrifuge spin

L/D @ 6:05

Tetras @ 6:43pm

Hot surface 7:40pm → 8:18pm

Cold 8:42pm → 9:12pm

→ 9:17pm RBC lysis

9:29pm

1st Perm Wash @ 9:52

2nd Ref Library @ 10:16 ✓

Intracellular @ 10:13 → 10:53

Done @ 11:02pm

Ref Library ~ 600K 400 400
700K ~ 300K ~ 200K ~ 200K

1941-1942

1. The first part of the report is a general survey of the situation in the country.

2. The second part is a detailed account of the work done during the year.

3. The third part is a summary of the results of the work.

4. The fourth part is a list of the names of the persons who have taken part in the work.

5. The fifth part is a list of the names of the persons who have been in charge of the work.

6. The sixth part is a list of the names of the persons who have been in charge of the work.

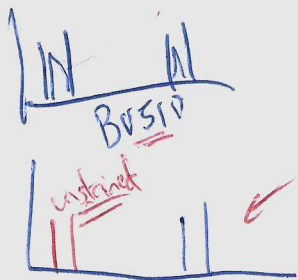
7. The seventh part is a list of the names of the persons who have been in charge of the work.

8. The eighth part is a list of the names of the persons who have been in charge of the work.

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Spectral Panel Optimization #1

UV3 %RCV 11.23



V5

✗

DR-cC-CD45RA-2
aC



Dr-aU ns & -051322

(P)

10¹⁵

gok

V5J

10⁵

V5

Dump nisheli control, PMA-Ainc

CD8 slightly off
161 dL

CD27

CD45RA 1.5 μ l \rightarrow 1p5

Dr-cC-CD45RA-1p5

^ S half tick, just foot & large. / for PMA as well

92%

20% CD8

77.7% CD4

0.8% DN

0.05% Vd2 yf

0.03% NKT

Pae

CD8

CD3

CD8

○ ○
○
○
○

2 CD16's vs
CD7 locations
+ Backbone
+ CD16 alone
↑
tetratation

CD27
28+

①, ③, ⑤,

SCS

BW
737

AF350
CD16