

January 28th, 2023

Variable Adult Responses? Or Cytokine Issue?

Specimen	Status	Location	Conc	Date	Tasks	Volume	Ly	Ly+Mon	Total	3E+6	.3E+6
ND006			17.2 μ l			2	5.72	7.60	11.4	432 μ l	
N4062			18.4 μ l			2	5.47	8.20	10.9	457 μ l	
(+N4058)											

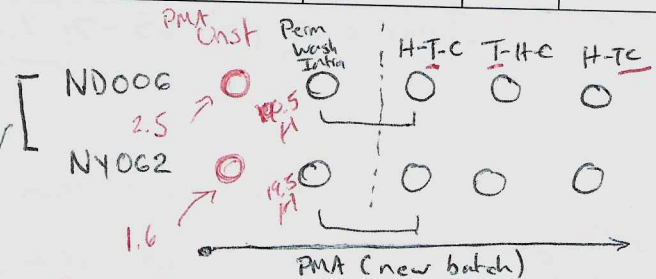
6:55 Guava cleaning
 7:15 Cells thermal waterbath, into spin
 7:41 Count (no CD45 stain)
 8:16 Cells PMAded (new batch)
 8:26 CD107a retroactively added

→ out @ 2:20 pm

2:32pm spin down

2:44pm \rightarrow 3:00 pm

500
 $\times 9 \times 2 =$
 4500 μ l
 R10



Since focus is on V52 cytokine responses, and non-specific background tetramers, everyone got 2.5 million cells

Split Unstaineds (3, 2) to track cells in the processing, reusing last weeks colors so best.

Also grab @ CD107a sc? (New vial?)

T-H-c tet stain @ 3:19 → 4:00pm

H-T-c
 & H-Tc mb 3Pc @ 3:22pm → 3:52pm

All spinning post FBS wash @ 16:00pm

4:15 pm → 4:25 pm H-T-c (then SB.spl add) → 4:55 (RBC Lyse!)

→ 4:55 pm H-T-c's

37°C @ 16:17 for T-H-c → 4:47pm ✓ spin

cold @ 5:00pm → 5:30pm (RBC lyse!)

T-H-c FixPerm @ 5:13 → 23 → 03pm ✓

H-T-c's into 4°C @ 5:17pm → 5:47pm (RBC lyse!)

H-Tc 1st perm wash
 & T-H-c post cold FBS @ 7:35pm → 2nd perm wash (both @ 8:40pm)

FixPerm @ 5:47 → 5:57 → 6:07

RBC lyse @ 5:49pm

Made a bead sc TNFa
 No CD25 in this run

Made a bead sc CD107a

Made a bead sc CD161!

T-H-c Fix Perm. 5:47 → 5:57 → 6:07 pm

H-Tc Intraedl. @ 54.5 pl Amine, inter 5:56 pm → 6:36 pm out

H-T-c's Rbc lye 5% FBS wash @

→ Fix Perm @ 6:05 → 15 → 25 //

1st perm wash for T-H-c @ 6:08 pm 1400 rpm 6 min
2nd perm wash @ 6:16 pm

T-H-c Intra @ 18:25 → 7:05 pm

H-T-c's First Perm @ 18:27

2nd perm wash @ 6:37 pm

Final 2nd spin @ 1400 rpm

Sc's in perm wash
made @ 6:32 pm

H-T-c Intra @ 6:47 pm → 7:27 pm done

H-Tc resuspended 0.4% PFA @ 6:48 pm

7:14 pm T-H-c done ✓

Done @ 7:35 pm

#	Filter	Single color (ul)	Ref ctrl	Unmixing ctrl name	Fluorochrome	Marker	Clone	Vial lot #	During stim!!!	8	L/D 15 min (RT)	Tetramer 40 min @ RT	HotStain 30min @37C	8	ColdStain 30min @4C	8	RBC Lyse, then FixPerm	Spiked 30 min @RT	8
1	UV2				BUV395	CD62L	(DREG-56)												
2	UV7				AF	AF-UV6													
3	UV9				BUV496	CD8	(RPA-18)												
4	UV10				BUV563	CD69	(FEN50)												
5	UV11				BUV615	CCR4	(1G1)												
6	UV14				BUV661	Vβ2	(B6)												
7	UV16				BUV737	CCR3	(1C6/CCR3)												
8	UV1				BUV805	CD4	(SK3)												
9	UV3				BUV821	CD127	(A01905)												
10	UV5				Pacific Blue	CD14	(M5E2)												
11	UV7				BUV480	CD161	(RFA631)												
12	UV10				BUV510	CD45RA	(H100)												
13	UV11				BUV605	CD56													
14	UV13				BUV711	CCR7													
15	UV15				BUV750	IFNγ	(B27)												
16	B2				BUV786	CCR6	(11A9)												
17	B3				AlexaFluor 488	hCD1d													
18	B4				Spark Blue 550	CD3	(SK2)												
19	B6				PE	NKG2D													
20	B8				PE-CF594	CD26	(M-A261)												
21	B10				PE-Cy5	CD25	(M-A251)												
22	B13				PerCP-Cy5.5	TNFr4	(MAB11)												
23	R1				PE-vio770	PD1													
24	R4				AlexaFluor647	hMR1													
25	R6				APC-7200	CD107a	(H4A3)												
26	R7				Zombie NIR	L/D													
27	R8				APC/Fire 750	CD27	(O323)												
					APC/Fire 810	CD38	(H12)												
And UNSTAINED CONTROLS !!!																			
R10 Media									6.0	48	Antibody Total	19.0	152	12.5	100.0			9	72
Pipette draw volume /sample									14.5	116	Brilliant Stain	50	400	50.0	400			50	400
									19.5		Pipette draw volume /sample	66		59.5				56	

Notes:

54.5

PMK-8% POP
AF

- CD45 old
- No CD25

Simplified Protocol

Thaw cells, DNase, count.

Collect, count, aliquot cells 3.0E6 Cells R10
Bring volume up to 1 ml R10, add 2 ul PMA/C
Cap and incubate at 37°C for 6 hours

Wash with 2 ml PBS, spin down 1300rpm 8m
800 ul of LiveDead mix (1:2500) @RT for 15m
Wash 2 ml 5% PBS-FBS, spin 1300 rpm, 8m

Add HoeStain mix, incubate @37C for 30 min
Wash 2 ml 5% PBS-FBS 1300 rpm, 8 min

Add Tetramers, incubate @RT for 10 min
Add ColdStain mix, incubate @ 4C for 30min
Add 300-500 ul 1x RBC lysis for 3 minutes
Wash 2 ml 5% PBS-FBS 1300 rpm, 8min

300 ul BD FixPerm, incubate @ 4C for 20min
(vortex every

First PermWash: 1 ml PermW.
Second Perm Wash: 1 ml PermW.

Add Intracellular Stain, incubate @ RT for 4C
First PermWash: 2 ml PermW.

Resuspend in 100 ul 0.4% PFA-PBS
Cap tubes, wrap neck in foil, store at 4°C

- 1100022

6/11/80 - 8/1/80

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Running Aurora water @ 1:41 pm (on for a bit before w/ template set up)

QC @ 01:48 pm

Event rate: ~100

The new batch PMA is working (by FSC/SSC inspection)
Samples ~ 77000 events rate (1:58 pm)

Where are the doublets in NY062?
Is it the monocytes?

Can only run 4 samples individual AEs at one time w/ our screen.
< Swap in the pma etc.... ala (last experiment) >

ND006 H-Tc	CD3	TNF α 28.19	IFN γ 11.27
	VD2 (1.87%)	45.06	49.30

Previous NY062... ctrl
VD2 \rightarrow 0.28%
CD3 \rightarrow 67% 47%
VD2 \rightarrow 75% 70%

NY062 H-Tc	CD3	19.74	8.58
	VD2 (0.18%)	39.90	37.12

Perme Wash
 $\downarrow \downarrow \downarrow$

ugly smear \rightarrow

ND006 H-T-c	CD3	31.3%	11.56%	33.1%	12.26%
	VD2 (1.44%)	58.60	62.36%	52.5	48.34%
NY062 H-T-c	CD3	19.01%	8.91%	20.53	5.71%
	VD2 (0.21%)	39.56%	39.17%	22.9	18.94

The issue was the other things spiked in at that volume >

NY062

1/28/2023

[illegible]

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* CCR4
* CXCR3
* CD127
* CD161
* CD56
* CCR9
* CD3 ~~AF48~~
burst of NKG2D
* PDI
= CD3 AF647

* CD38 666 → ugh...

CD7 streamer

Swapping out
AF488/AF647 both
for CD35 ...

↓ ↓ ↓ ↓

moved
← those gates over
a bit to the right

CD38 ≠
AF647?

1. The first part of the report
describes the general situation
of the country and the
main problems which
are facing it. It also
mentions the main
achievements of the
government in the
last few years.

2. The second part of the report
deals with the economic
situation of the country.
It mentions the main
sectors of the economy
and the main problems
which are facing them.
It also mentions the
main achievements of the
government in the
last few years.

3. The third part of the report
deals with the social
situation of the country.
It mentions the main
sectors of the economy
and the main problems
which are facing them.
It also mentions the
main achievements of the
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