

June 27<sup>th</sup>, 2023

2023\_ILT\_09

Specimen	Status	Location	Conc	Date	Notes	Volume	Lym	Lym+Mon	Total
1960c 70pl 1960c 80pl 1950c 80pl 2100c 80pl 1300c 40pl 1400c 60pl 1540c 60pl 1510c 60pl 2160c 40pl 4300c 40pl	Inf250-7 a-3 Hu SEM6 a-p SEM7 Inf169-6 a-2 SQ0V HEU-10 f a-1 SQ0V Inf101-2 a-4 HEU-H10 R4B6 Inf320-5 a-4 HEU-H10 SNUY a-2 SNUZ ND050 ND006	(18) (8) (2) (7) (12) (10) (1) (9) (5) (6)	<9.697 <9.097 <21.787 <14.747 <15.047 <15.47 <9.37 <7.97 <11.127 <6.657		Bloody Bloody-est 1/13/23 5/12/23	1 1 1 1 1 1 1 1 1 1	5.96 5.98 3.14 4.43 4.81 5.25 7.16 8.04 9.21 14.9	16.5 10.6 5.82 7.58 7.04 7.86 8.76 9.57 12.4 17.4	

1st thaw @ 9:23 spin @ 9:39 DNA @ 9:50 resus @ 10:11  
adult thaw @ 9:41 spin @ 9:49 DNA @ 10:04 resus @ 10:11  
2nd thaw @ 10:27 spin @ 10:45 DNA @ 10:45 resus @

11:02 am stain count

Count @ 11:19 am 11:42 am

12:12 aliquot starts:

→ 31

Incubation @ 1:00 pm

<Ab prep @ 6:30 pm >

7:09 spin samples

7:25 L/D → 7:40 pm

7:32 se spin

L/D se @ 7:49 → 8:04 pm

Hots @ 8:03 pm → 8:33 pm

Hots @ 8:11 → 8:41 pm

Cold sc's @ 8:21 pm → 8:51 pm

Tet's prepped @ 8:29 pm

8:50 pm Tet's → 9:30

9:04 Abs → 9:34 pm

Upps 200 → 20pl pipette 9:00 → 9:13 pm  
(as they get 1/2 = 5x)

9:10 pm se Fix Perm → 20 → 30

Combined spin @ 9:37 pm

9:50 cold samples → 10:20 pm

9:58 2nd Perm Wash

10:12 pm Intra scs → 10:52 pm → spin @ 10:53

10:14 pm RBC lysis spin @ 10:27 pm

10:40 pm → 50 → 11:00 pm Fix Perm samples

2nd perm wash @ 11:16 pm

11:29 Intrae for samples (little left for tet ctrl well)

→ 12:09 am Final spin @ 12:10

Done @ 12:22 AM

3.29  
7.57

11.86

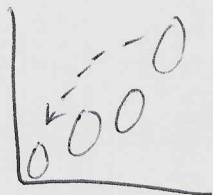
9

Acquisition started 4:03 pm

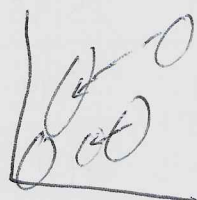
ND050 & PMA

& Ctrl unstained off y6 - R8 <sup>↑↑↑</sup> signal?

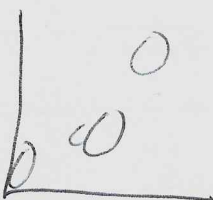
Samples @ 5:32 pm:



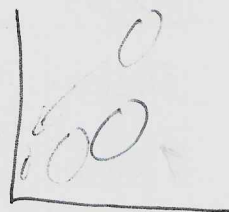
Inf 250  
Vacht screw



Inf 169  
Vacht screw  
2511/3.311



Inf 101  
1511/111



Inf 320  
1511/111

Cunningham's  
law  
(internet forums)

Using ND050 Ctrl/PMA as Unstained's given whatever  
happened w/ ND006's ↑ y6 + UV (186.16 w/ both Fik/AF08 unit)

Antibodies recombined ☐ Tetramers recombined ☐

		Tetramer		
ND050	0.04	NRT	0.33	0.02 0.51.05
	0.05		0.02	0.04 0.08
101	0.12		0.02	0.04 0.08 0.07 0.03
	0.02		0.01	0.03 0.13 0.03 0.11
250	0.06		0.04	0.03 0.10 0.03 0.08

needed comparable, the hMRI OP-RU feeding.

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#	Filter	Single color (u)	Ref ctrl	Unmixing ctrl	Fluorescence	Marker	Clone	Vial lot #	During stimuli	16	U/D 15 min (RT)	Tetramer-40 min @ RT	HoStain 30min @37C	16	ColStain 30min @4C	16	RBC Lys, FACSperm	Spiked 40 min @RT	16
1	UV2				BUV395	CD62L	SK11								1.2	19.2			
2	UV7				AF	AF-UV6													
3	UV9				BUV395	CD8	BPV18								0.7	11.2			
4	UV10				BUV395	CD69	FN50								0.5	8.0		1	16.0
5	UV11				BUV395	CD4	101												
6	UV14				BUV395	CD4	B6								0.7	11.2		0.1	1.6
7	UV16				BUV395	CD63	1C6/CD63								1.3	20.8			
8	UV1				BUV395	CD4	SK3												
9	UV3				BUV395	CD137	AD19D5											0.5	8.0
10	UV5				Pacific Blue	CD14	M5C2												
11	UV7				Pacific Blue	CD19	S2S2C1								2.0	32.0			
12	UV10				Pacific Blue	CD19	HP 3C10								2.0	32.0			
13	UV11				BUV395	CD86	5.H111								0.7	11.2			
14	UV13				BUV395	CD69	60A3H7											0.1	1.6
15	UV14				BUV395	CD7	M1701											0.7	11.2
16	UV15				BUV395	CD86	B27												
17	UV16				BUV395	CD86	11A6											1.5	24.0
18	UV18				BUV395	CD44/CD14	6611												
19	UV19				Spent blue 550	CD3	567												
20	UV20				PE-CD45-5	CD26	8A56								1.2	19.2		0.1	1.6
21	UV21				PE	NK62D	1D11											2.5	40.0
22	UV22				PE-Dazl-594	TM54	MA811											8.0	8.0
23	UV23				PE-Cy5	CD25	MA-2521											1.5	24.0
24	UV24				PE-46070	PD1	PD1313											0.5	8.0
25	UV25				APC	CD16	308								1.5	24.0		0.5	8.0
26	UV26				APC/fluorescein	V421/CD161	3C10								0.7	11.2			
27	UV27				APC-RT00	CD107a	HA43												
28	UV28				Zombie NIR	U/D	N/A												
29	UV29				APC/Fire 750	CD27	CD23												
30	UV30				APC/Fire 810	CD38	HT2												
And UNSTAINED CONTROLS (H)																			
R10 Media									6.0	96	Antibody Total	1.6	25.6		12.5	200.0	9.5	152	
Pipette draw volume /sample									14.5	232	Brilliant Stain	50	800	50.0	800	11	176		
									19.5		Pipette draw volume /sample	65		59.5			19.5		

## Simplified Protocol

Thaw cells, DNase, count.  
Collect, count, aliquot cells 2-3J6-6 Cells R10 / 5ml polystyrene tube  
Bring volume up to "x" ml. R10 and "y" ml PMACri and "z" ul CD107a  
Cap and incubate at 37°C for 6 hours

Wash with 2 ml PBS, spin down 1300rpm 8min  
800 ul of Livebead max (1:2500) @RT for 15min  
Wash 2 ml 5% PBS-FBS, spin 1500 rpm, 8min

Add HoStain mix, incubate @37C for 30 min  
Wash 2 ml 5% PBS-FBS 1400 rpm, 8 min

Add Tetramers, incubate @RT for 10 min  
Wash 2 ml 5% PBS-FBS 1400 rpm, 8 min

Add Colistatin mix, incubate @4C for 30min  
Add 300-500 ul 1x RBC lysis for 2 minutes  
Wash 2 ml 5% PBS-FBS 1400 rpm, 8min

300 ul BD FACSPerm, incubate @4C for 20min

(vortex every 10 minutes)

First PermWash: 1 ml PermWash 1500 rpm 6 min  
Second PermWash: 1 ml PermWash 1500 rpm 6 min

Add Intracellular Stain, incubate @RT for 40min  
First PermWash: 2 ml PermWash 1500 rpm 6 min

Resuspend in 70 ul 0.4% PFA-PBS

Cap tubes, wrap rack in foil, store at 4°C

VA Mix	FITC	1.5	10
AF647	VA24118	1.2	15
	VA7	1.2	12
	PBS	17.8	17.8

9

0

0



[illegible][illegible]



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