

July 3rd, 2023

2023\_ILT\_11

Specimen	Status	Location	Conc	Date	Notes	Volume	Lym	Lym+Mon	Total
2030 60p 2050 c.	Inf0280 HU ♂ a-2 RR7R	(5)	<10.287		LN2 inside	1	5.81	10.4	
60p	a-1 RR7Q	(11)	<9.847			1	6.15	11.1	
40p	Inf939-1 HU ♂ bx-37 V8LC	(1)			lysed? res f. nat Lysed !!	1			
40p	bx-2 V8LB	(9)			Lysed !!	1			
40p	Inf0365 HU ♂? a-1 TR9C	(2)			lysed? res f. nat Lysed !!	1			
1760c. 60p 2010c. 60p 860c. 40p 020c. 40p 730c. 40p 140c. 4p	Inf548-7 HEU-107 a-2 TE8K	(3)	<8.26>			1	6.37	10.5	
	a-1 TE8J	(10)	<8.567			1	6.09	10.1	
	Inf315-9 HEU-107 a-1 SNK8	(4)	44.47			1	6.27	10.0	
	a-2 SNK9	(8)	10.117			1	8.91	14.0	
	ND050 Adult ♂	(7)	20E6 <11.03>	1/13/23		1	8.89	12.7	
	ND006 Adult ♀	(6)	15E6 <7.247	5/12/23		1	13.5	16.9	

Start @ 9:20 am spin @ 49 am  
9:52 am 10:00 10:30  
Dilko @ 10:10 10:15 10:54 10:20

11:15 am stain for count

11:30 am count

12:30 aliquot & suspend cell

Incubation @ 12:56 → 6:56 pm

Reagents & Abs prepped @ 4:12 pm

→ sc spin @ 6:58 pm

Wb @ 7:19 pm

net sc's @ 7:25 → 7:55 spin @ 7:56

cold sc's @ 7:34 → 8:04 spin @ 8:08

spin @ 7:40 pm

<7.46 tets prepped>

Hot @ 7:54 pm → 8:24 pm spin @ 8:27 pm

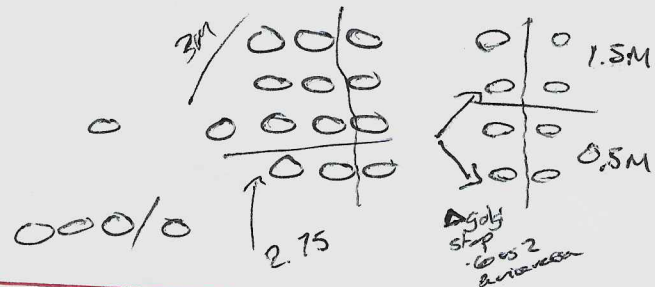
8:23 → 8:33 → 8:43 → 1st wash @ 8:47 pm

Tets @ 8:42 pm → 2nd wash @ 9:00 pm

Va Abs @ 8:52 pm → 9:22 pm spin @ 9:27 pm

9:16 Intrae sc's → 9:56

→ spin @ 9:58 pm



9:41 pm Cold → 10:11 pm  
Rbc lye @ 10:14 pm  
Spin @ 10:20 pm

10:31 pm → 41 → 51 pm

10:54 pm first wash ✓

11:05 pm 2nd wash ✓

11:17 pm → 11:52 Intrae cell

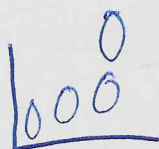
Done @ 00:07 am ✓

Qc Aurora @ 2:48 pm (soo tired)  
2:54 pm sc start

The APC CD3 PMA is probably @ AF647  
alternative for CD16 unmixing on PMA.  
weird mix?

Coffee @ 3:55 pm Brb

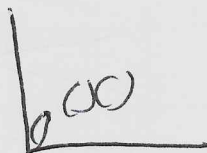
→ 4:11 pm



InA028

24K/31K

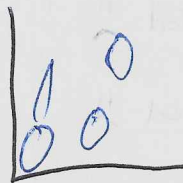
↑ 70%



InA548

29K/6K

Done @ 5:06



InA315

25K/3.8K

stretch ← coord unstarred

is bin by cosine %?  
vs reference?  
Data Visualization

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Sample	Total	Volume	Concentration	3M	2.75M	2.5M	2.25M	2.0M	1.75M	1.5M	1.25M	1.0M	0.75M	0.5M
INF028	11.96	2	5.98	0.50	0.46	0.42	0.38	0.33	0.29	0.25	0.21	0.17	0.13	0.08
INF548	12.46	2	6.23	0.48	0.44	0.40	0.36	0.32	0.28	0.24	0.20	0.16	0.12	0.08
INF315	15.18	2	7.59	0.40	0.36	0.33	0.30	0.26	0.23	<del>0.20</del>	0.16	0.13	0.10	0.07
INF000	2	2	1.00	3.00	2.75	2.50	2.25	2.00	1.75	1.50	1.25	1.00	0.75	0.50
ND050	8.89	1	8.89	0.34	0.31	0.28	0.25	0.22	0.20	0.17	0.14	0.11	0.08	0.06
ND006	13.5	1	13.50	0.22	0.20	0.19	0.17	0.15	0.13	0.11	0.09	0.07	0.06	0.04

$\frac{12.00}{24} = 0.5$   
 $\frac{12.46}{24} = 0.52$   
 $\frac{15.18}{24} = 0.63$   
 $\frac{2}{24} = 0.08$   
 $\frac{8.89}{24} = 0.37$   
 $\frac{13.5}{24} = 0.56$

R10	Sample	3M	2.75M	2.5M	2.25M	2.0M	1.75M	1.5M	1.25M	1.0M	0.75M	0.5M
	INF028	0.50	0.456	0.415	0.37	0.332	0.290	0.25	0.207	0.166	0.12	0.083
	INF548	0.52	0.475	0.432	0.39	0.345	0.302	0.26	0.215	0.172	0.13	0.087
	INF315	0.60	0.554	0.504	0.45	0.402	0.352	<del>0.30</del>	0.251	0.201	0.15	0.101
	INF000	-2.00	-1.834	-1.667	-1.50	-1.334	-1.167	-1.00	-0.834	-0.667	-0.50	-0.333
	ND050	0.66	0.607	0.552	0.50	0.441	0.386	0.33	0.275	0.221	0.17	0.111
	ND006	0.78	0.712	0.648	0.58	0.518	0.453	0.39	0.323	0.259	0.19	0.130

PMA	Sample	3M	2.75M	2.5M	2.25M	2.0M	1.75M	1.5M	1.25M	1.0M	0.75M	0.5M
	INF028	2	1.83	1.66	1.5	1.32	1.16	1	0.83	0.66	0.5	0.33
	INF548	2	1.83	1.66	1.5	1.32	1.16	1	0.83	0.66	0.5	0.33
	INF315	2	1.83	1.66	1.5	1.32	1.16	1	0.83	0.66	0.5	0.33
	INF000	2	1.83	1.66	1.5	1.32	1.16	1	0.83	0.66	0.5	0.33
	ND050	2	1.83	1.66	1.5	1.32	1.16	1	0.83	0.66	0.5	0.33
	ND006	2	1.83	1.66	1.5	1.32	1.16	1	0.83	0.66	0.5	0.33

CD107a	Sample	3M	2.75M	2.5M	2.25M	2.0M	1.75M	1.5M	Volume	Lym	Total	Average
	INF028	6	5.5	5	4.5	4	3.5	3	1	6.27	6.27	7.59
	INF548	6	5.5	5	4.5	4	3.5	3	1	8.91	8.91	7.59
	INF315	6	5.5	5	4.5	4	3.5	3	1	8.91	8.91	7.59
	INF000	6	5.5	5	4.5	4	3.5	3	1	8.91	8.91	7.59
	ND050	6	5.5	5	4.5	4	3.5	3	1	8.91	8.91	7.59
	ND006	6	5.5	5	4.5	4	3.5	3	1	8.91	8.91	7.59





Thaw cells, DNase, count. Collect, count, aliquot cells 2.3.10E+6 Cells R10 / 5ml polystyrene tube Bling volume up to "x" mL R10, add "y"  $\mu$ l PNAcitr and "z"  $\mu$ l CD107A Cap and incubate at 37°C for 6 hours

### Simplified Protocol

Thaw cells, DNase, count. Collect, count, aliquot cells 2.3.10E+6 Cells R10 / 5ml polystyrene tube Bling volume up to "x" mL R10, add "y"  $\mu$ l PNAcitr and "z"  $\mu$ l CD107A Cap and incubate at 37°C for 6 hours

Wash with 2 ml PBS, spin down 1300rpm 8min

Wash 2 ml 5% PBS-FBS, spin 1300 rpm, 8min

**Add HotStain mix, incubate @37C for 30 min**

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

**Add ColdStain mix, incubate @ 4C for 30min**

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

300  $\mu$ l BD FixPerm, incubate @ 4C for 20min

(vortex every 10

**Second Perm Wash:** 1 ml PermWash

**Add Intracellular Stain, incubate @ RT for 40min**

0  
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X  
Y  
Z

	FBS	RBC type	PFA
Number Samples	104	39	52
Number Tissue	10	7	20
Number Surface SCS-200	29	0	58
Number Intracellular SCS	6	17	24
Total	154	129	154
	154.1		158.6

	Perm
FBS	15.4
PFS	1.39
PFA	0.69
PBS	6.21

PBS	89.5	Perm	15.4
PBS	89.5	Water	139

Perm	15.4
Water	139

Perm	15.4
Water	139





[illegible]

APC AF647	CD16 Vα7.2/mMR1
APC-R700	CD107a
Zombie NIR APC-Fire 750 APC-Fire 810	Viability CD27 CD38

