

April 15th, 2023

(1:100)

TNFa Location

Specimen	Status	Location	Conc	Date	Tasks	Volume	LyEC	Ly+Mon	Total	2E+6	1.5E+6
Inf142 a-7	Corel S76L		7.4μl			2	7.74	10.9	15.48	260μl	190μl

2:05 pm Thaw

2:14 pm Spin

2:34 stain

2:47 count start

Incubation @ 3:13 pm → 9:13 pm

Ab prep @ 8:30 pm

Done w/ prep @ 9:10 pm

Spin @ 9:21 pm

L/D @ 9:35 pm

Spin @ 9:54 pm 63μl

22:07 pm Hot Samples @ → 22:37 pm

Va1's @ 22:50 → 11:20

Cold stain @ 23:33 → 00:03 am

Lyse @

Spin

Fix Perm @ 00:19 am → 29 am → 39 am

1st wash @ 12:43 pm

2nd @ 12:53 am

Head start TNFa @ 1:00 am (15 for Dazle, 50 for PerCP-Cy5.5)

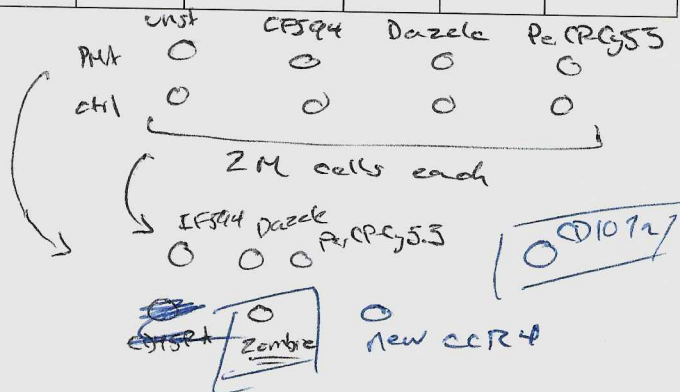
1:14 am Intracellular → 2:00 am

(ctrl Per-CP-Cy5.5 didn't get, mess up cells?)

Spin @ 2:00 am 30/45μl 0.4

Done 2:10 am

furry grumbles



Cells 260μl

R10 358μl

50μl * 1.32 = 66μl

5.28μl of stim

4μl of CD107a

intra-spike
+ 0.1 CD56 + 0.1 CD3

20.5 1.5 * 6 = 9
- 2.7 1.2 * 6 = 7.2
17.8 * 6 = 106.8

71.4μl
amine

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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
INF142	15.48	2	7.74	0.39	0.36	0.32	0.29	0.26	0.23	0.19	0.16	0.13	0.10	0.06
NA	5	1	5.00	0.60	0.55	0.50	0.45	0.40	0.35	0.30	0.25	0.20	0.15	0.10
NA	5	1	5.00	0.60	0.55	0.50	0.45	0.40	0.35	0.30	0.25	0.20	0.15	0.10
NA	5	1	5.00	0.60	0.55	0.50	0.45	0.40	0.35	0.30	0.25	0.20	0.15	0.10
NA	5	1	5.00	0.60	0.55	0.50	0.45	0.40	0.35	0.30	0.25	0.20	0.15	0.10

R10	Sample	3M	2.75M	2.5M	2.25M	2.0M	1.75M	1.5M	1.25M	1.0M	0.75M	0.5M
	INF142	0.61	0.561	0.510	0.46	0.408	0.357	0.31	0.255	0.204	0.15	0.102
	NA	0.40	0.366	0.333	0.30	0.266	0.233	0.20	0.166	0.133	0.10	0.067
	NA	0.40	0.366	0.333	0.30	0.266	0.233	0.20	0.166	0.133	0.10	0.067
	NA	0.40	0.366	0.333	0.30	0.266	0.233	0.20	0.166	0.133	0.10	0.067

PMA	Sample	3M	2.75M	2.5M	2.25M	2.0M	1.75M	1.5M	1.25M	1.0M	0.75M	0.5M
	INF142	2	1.83	1.66	1.5	1.32	1.16	1	0.83	0.66	0.5	0.33
	NA	2	1.83	1.66	1.5	1.32	1.16	1	0.83	0.66	0.5	0.33
	NA	2	1.83	1.66	1.5	1.32	1.16	1	0.83	0.66	0.5	0.33
	NA	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
	INF142	6	5.5	5	4.5	4	3.5	3
	NA	6	5.5	5	4.5	4	3.5	3
	NA	6	5.5	5	4.5	4	3.5	3
	NA	6	5.5	5	4.5	4	3.5	3

#	Filter	Single color (u)	Ref ctrl	Unmixing ctrl name	Fluorochrome	Marker	Clone	Vial lot #	During stimuli	6	L/D 15 min (RT)	Tetramer-40 min @ RT	HotStain 30min @37C	6	Coldstain 30min @4C	6	RBC Lys. then FixPerm	Spiked 30 min @RT	6
1	UV2				BUV395 AF	CD62L AF-UV6	SK11								1.2	7.2			
2	UV7				BUV496	CD8	RPA-T8								0.7	4.2			
3	UV9				BUV563	CD69	FNS0								0.5	3.0		1	6.0
4	UV10				BUV615	CCR4	1G1						2.0	12					
5	UV11				BUV661	Vβ2	B6								0.7	4.2		<0.25>	#####
6	UV14				BUV737	CKCR3	1G6/CKCR3								1.3	7.8			
7	UV16				BUV805	CD4	SK3						1.5	9				0.5	3.0
8	V1				BUV421	CD127	AO1905						1.5	9					
9	V3				Pacific Blue	CD14	M562								2.0	12.0			
10	V5				Pacific Blue	CD19	S125C1								2.0	12.0			
11	V7				BUV480	CD161	HP-3G10						2	12					
					BUV510	CD45RA	H100								0.7	4.2			
12	V10				BUV605	CD56	5.1H11						1.0	6					
13	V11				BUV650	CCR7	G043H7						1	6				1	6.0
14	V13				BUV711	CD7	M-1701												
15	V14				BUV750	IFNγ	B27											1.5	9.0
16	V15				BUV786	CCR6	11A9											1.5	9
17	B2				FITC/AF488	Vα24/βCD1d	6B11					<5/100>	1.5	9				<0.25>	0.6
18	B3				Spark blue 550	CD3	SK7								1.2	7.2		0.1	3.0
19	B4				PE	NKG2D	1D11						1.5	9				0.5	3.0
20	B6				PE-CF594	CD26	M-A261						<1.2>	###				0.5	3.0
21	B8				PE-Cy5	CD25	M-A251						1.2	7.2				0.5	3.0
22	B10				PerCP-Cy5.5	TNFR4	MA611											<3.0>	#####
23	B13				PE-yo770	PD1	PD1.3.1.3											0.5	3.0
24	R1				APC	CD16	3G8								1.5	9.0		0.5	3.0
25	R2				AlexaFluor647	Vα7.2/βMR1	3C10								0.7	4.2		<0.25>	
26	R4				APC-R700	CD107a	H4A3			36									
27	R6				Zombie NIR	L/D	N/A				<1.2500>								
28	R7				APC/Fire 750	CD27	O323						2	12					
29	R8				APC/Fire 810	CD38	H172						1.6	9.6					
And UNSTAINED CONTROLS III										Antibody Total	6.0	36	Antibody Total	17.8	107	12.5	75.0	5.6	33.6
										R10 Media	14.5	87	Brilliant Stain	50	300	50.0	300	50	300
										Pipette draw volume /sample	19.5		Pipette draw volume /sample	65		59.5		52.6	

Simplified Protocol

Thaw cells, DNase, count.
Collect, count, aliquot cells 2-3.0E6 Cells f
Bring volume upto 1 ml R10, add 2 u l PMA/1
Cap and incubate at 37°C for 6 hours

Wash with 2 ml PBS, spin down 1300rpm 8
800 ul of Live/Dead mix (1:2500) @RT for 15
Wash 2 ml 5% PBS-FBS, spin 1300 rpm, 8m
Add HotStain mix, incubate @37C for 30 min
Wash 2 ml 5% PBS-FBS 1400 rpm, 6 min

Add Tetramers, incubate @RT for 10 min
Wash 2 ml 5% PBS-FBS 1400 rpm, 6 min
Add ColdStain mix, incubate @ 4C for 30mi
Add 300-500 ul 1x RBC Lysis for 3 minutes
Wash 2 ml 5% PBS-FBS 1400 rpm, 6min

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

First PermWash: 1 ml PermW,
Second Perm Wash: 1 ml PermW,
Add Intracellular Stain, incubate @ RT for 4
First PermWash: 2 ml PermW,

Resuspend in 70 ul 0.4% PFA-PBS
Cap tubes, wrap rack in foil, store at 4°C

56 437

$$\frac{20.5 - 8.6}{15.91 \times 6} = 7.4$$

4/15/2023

[illegible]

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