3004/11	Specimen	Status	T					Tetramer Staining Order 1-5										
Hope			Location	Conc	Date	Tasks	Volume	Ly	Ly+Mon	Total		.3E+6						
	N40621)			20 EG	08/12/21		2	4.49	6.15	8.89	re V							
3504pl	NA085	Adult	ir menda	20E6	08/12/21		2	6.19	8.32	12.38								
								5.34		21.36	.280p							
										he.	+220pl							
L																		
	Than (9:10 -	9:50 am	(after	PPD cell	· />	- H-	30/1 =	$= \frac{280 pl}{500 pl}$ $= \frac{232}{1} = \frac{50}{1}$									
	10.00 0	., 5/6	an count					?	500 pl		only (36 pl/						
	Incubate	on @ 1	1:36 am	~~>	5:36 F	om		\rightarrow	232 = 50	20) Ca	stared tube						
		#	PMA, C	Ital Blo	dy + c	201072 1	espeatu	ely	> 0.	46411	PMA	14						
		T+	H+ C	Het	+c	H+C+-	T H	Feet	14+ cm	11.79	Su One	individ						
	PMA	C)		>	0	9	0	0 ,	07	l C	Jan 8 124						
	etrl			(0												
7		1)	11	P. C. C.														
7	A Not fo	lloning	tetran	res a	satrols	today	just s	taining	order for	· fett	\$ ban	a ebone						
	5:35 pm All mixe	a desa	s prepe	() 25 pm	,				of hmrs	1 (new)	mi	K						
	Spin do-	m @50					- < C		95 1/ 7			_						
	- c0107	h 50	•					< 1	95 pl/ m]	3/11	1 1 8	1 M chive						
	- CX3	CR7 N	WA, IFNS,	THE.	C069	se AM	10		of hoold		001	respecti						
		-/	The second	iter 15	sue)	a signal b	ends 10) test	of hoold	(new)	1	edianer imepoints						
	6:11 Live	26:18	7 67 pm -> 40	26 Da			20	1.37 Hul in	36 11 > -	12.1								
	spine G	30 pm		spm					36 pl>~	(3P1)	10	.14						
				27 ×.	2						,	13.5						
	Tets @	26.00		×,	Ĝ	2	3pt-2	0										
75	it Hot i	U	pm			3/5 [apl - 2	2.5 mlg										
	if Hot v	ob or	e @ 6.	59 -	7:30	o pm/		D										
	25	KBC	lysed			1												

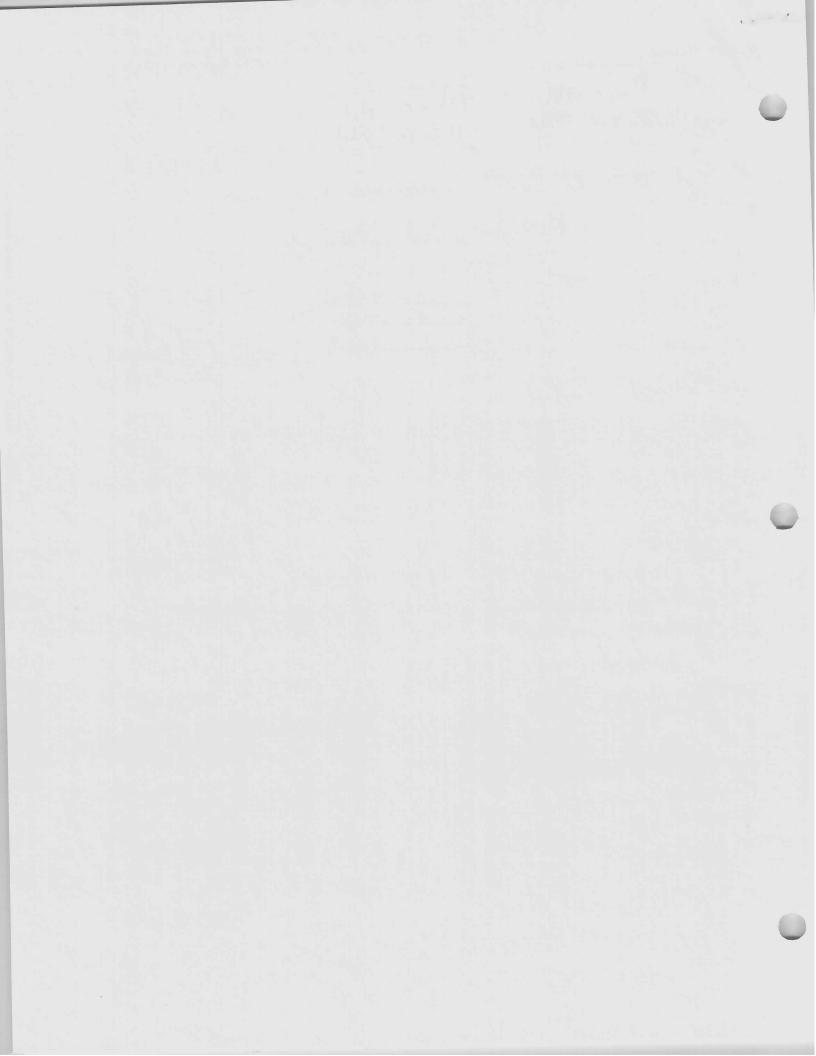
7:30 grab hots a RT tets... Ses @ 7:08pm -> 18-728 FIXPen 7:39 pm Samples FBS spin 130c rpm 8 min (no speed) + SCS 2nd Pern Wesh. 2nd Haraner wave @ 7:56 pm H-T-c & H-TS Infrac Sc/s @ 20:04 pm +8:44 pm) > 20:11 - 8:41 Hot/cold/RT 30 mm 2nd vove spin @ 20:48 pm e NKI & Va7 didn't get tetramers @ end cold ... so just se controls equivalents + HT+C & H+TE FEM @ 21:04 ->14 - 124pm/ · H+C+T into lete 21:06 -> 21:46pm fire Cold Tels @ 21:08 -> :38pm First sets Intra @ 21:35 pm = 10:35pm 2nd batch Fixtern @ 10:03 pon -7:13:23 5 15 pen much @ / 2nd @ 22:38 Herwich Infae 54.5/ Httc & HtTe (regorder toroland) Spine 10:55pm ~ 23:10 pm

H-TC PMA TH-C ctrl
Va7-2 PMA H-TC ctrl

1 2/1 colota in Janoth - PMA looks Shirly weall ...

Monocytes proched up the ab

Template (deplicate)



Tetramer Staining Order

		And UNSTAINED CONTROLS !!!				26 R7	25 R6		23 R2	29 R1	22 B13	21 810	20 88	19 B6	18 84	17 B3	16 B2	15 V15	14 V14	28 V13	13 V11	12 V10		11 V7	10 V5	٧3	9 V3	8	7 UV16	6 U14	5 UV11	4 UV10	3 UV9	2 UV7	
)IS III																																	
				APC/Fire 810	APC/Fire 750	Zombie NIR	APC-R700	AlexaFluor647	APC	PE-VIO/70	Perch-ch3.5	PE-CYS	PE-CE594	34	Spark blue 550	Alexariuor 488	Alaysely and	BV750	TT/80	BV530	BUCEO	Blicas	DICAR	E)/F10	Pacific Blue	Pacific Blue	BV421	BUV805	BUV737	TORROR	BUV661	BUV615	BUV563	RIIVAGE	
				CD38	CD27	L/D	CD107a	hMR1	CD16	PD1	TNFa	CD25	CD26	NKGZD	CD3	hCDId	CCR6	IFNY	CD/	CCR7	0036		CD45RA	CD161	CD19	CD14	CD127	CD4	CXCR3	V02	41100	COBA	CD8	AF-UV6	-
/sample	Pippette draw volume	Antibody Total	(minut)	(HIT2)	(0323)		(H4A3)				(MAB11)	(M-A251)	(M-A261)		(SK7)		(11A9)	(827)					(Hi100)	(REA631)	(HIB19)	(M5E2)	(A019D5)	(SK3)	CXCR3)	(86)	(Terl)	(1CH)	(RPA-T8)		
	volume																																		
19.5		-					2.0																								-				
Pip	204	22	+	-		_	22																												
pette draw vo	Brilliant Stain	Antibody Total	L			<1:2500>																													
Pippette draw volume /sample	t Stain	y Total					1	<: >/)								<: >()																			
67	50	19.5	1.6	2							2.4	17	1 2				15	+	4	1.5	10		-	7		4.0	1.5				2.0				
	550	215	17.6	22							7.CT	13.2	12 2	165		10.0	165	11	11	16.5	11		77	77		C.01	16.5				22				
60.7	50.0	13.7						0.7	2 1	10				7.7	1							0./		1.0	0.5				2.5	0.7		0.5	0.7	7.4	17
	550	150.7						1.1	TO.5	107				13.2	12,							7.7		0.77	22.0			11:0	27.5	77	0.0	55	77	7.5.2	100
54.5	50	7.5					light.			2.5			0.5				1.5		0.5								0.5				1	2			
	550	82.5			100				5.5	27.5	5.5		5.5				16.		5.5								5.				11				

Simplified Protocol

Thaw cells, DNAse, count.

Collect, count, aliquot cells 3.0E+6 Cells R10 / 5ml polystyrene tube
Bring volume upto 1 ml R10, add 2 ul PMACtrl and DuringStim antibody
Cap and incubate at 37°C for 6 hours

Wash with 2 ml PBS, spin down 1300rpm 8min 800 ul of LiveDead mix (1:2500) @RT for 15min 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, 6min

Add tetramers for 40 minutes at RT Wash with 2 ml PBS, spin down 1300rpm 8min

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

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

First PermWash: Second Perm Wash:

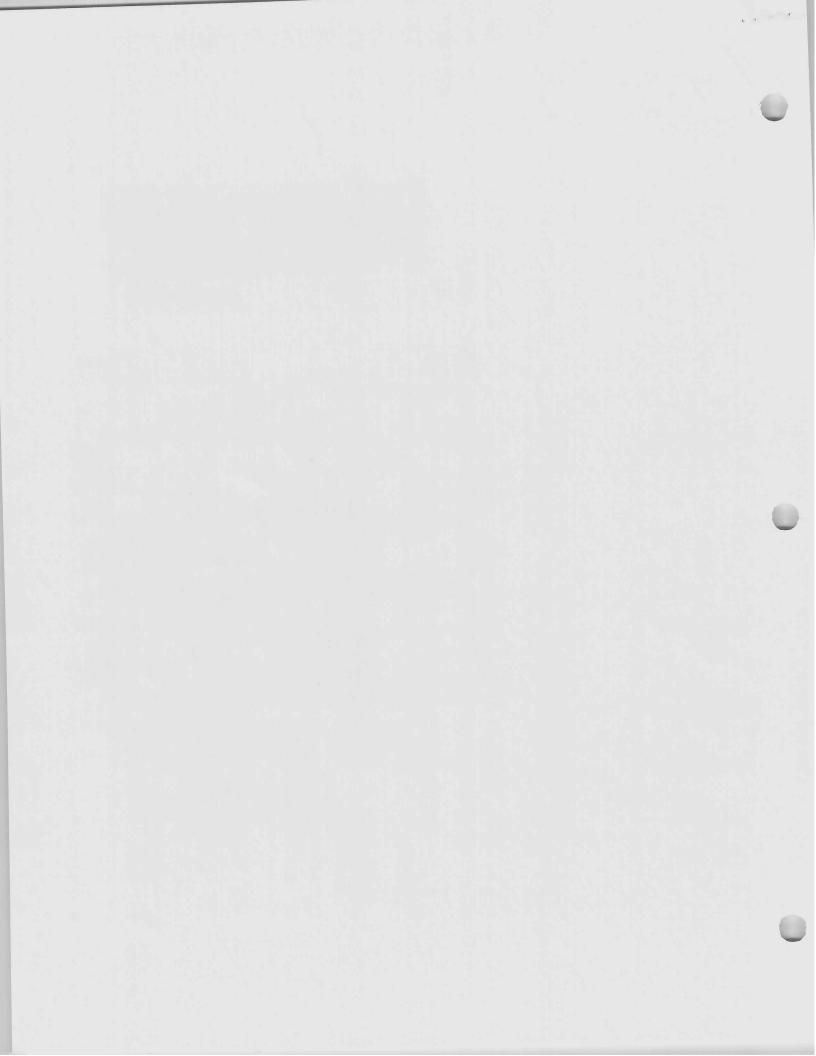
1 ml PermWash 1500 rpm 6 min 1 ml PermWash 1500 rpm 6 min

(vortex every 10 minutes)

Add Intracellular Stain, incubate @ RT for 40min First PermWash: 1 ml Pe Second Perm Wash: 1 ml Pe 1 ml PermWash 1500 rpm 6 min 1 ml PermWash 1500 rpm 6 min

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

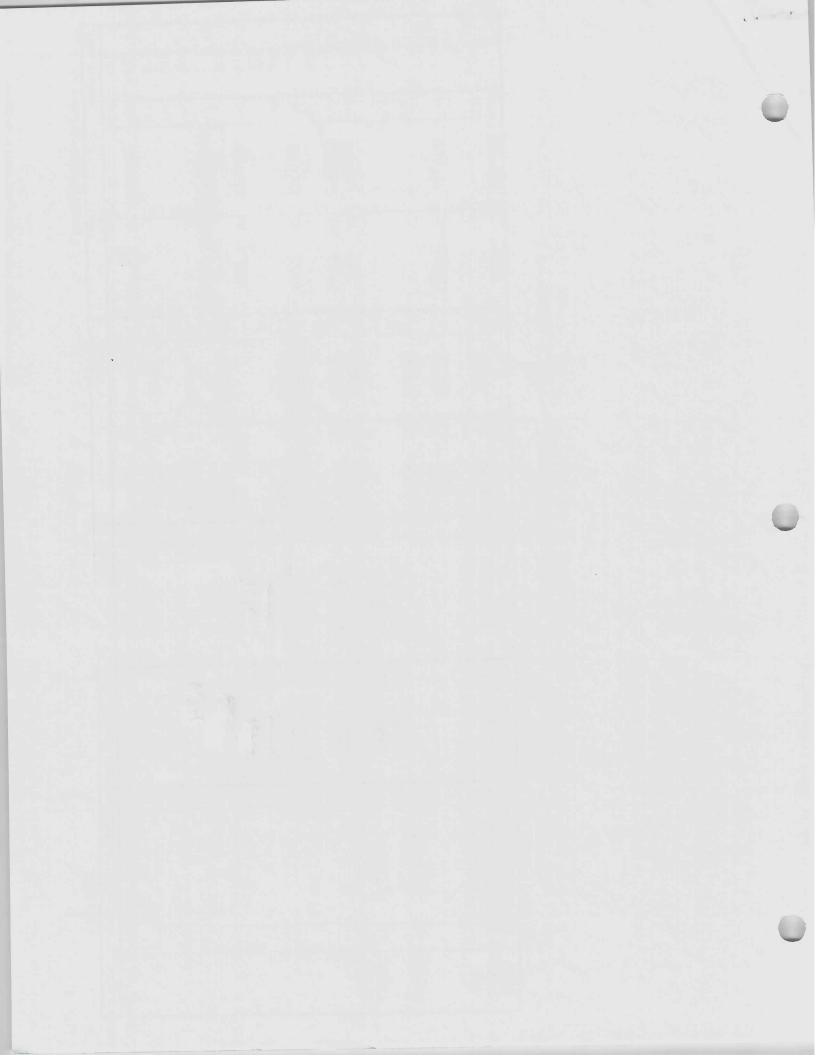
Notes:



ILT & NK SFC Panel

Vivi		10000000												
BUV395								514 525	508	458	443	388	373	Spectrum
Violet Blue Red	V15 V16	V14	JV13	V12	JV10 JV11	0	BVU	UV7	OV0	UV5	UV3	UV2	UV1	
Violet Blue					BUV615 BUV661	BUV563		BUV496	AF-UV6			BUV395		5
Violet Blue Red Vi BV421 [4] CD127 Red Vi PacBlue [ii] CD14/19 L24 Vi PacBlue [ii] CD14/19 L24 Vi BV480 [ii] CD161 Bi L4488 Vi BV510 [ii.s] CD45RA Bi SparkBlue 550 [ii.] hGb1d Vi BV570 [ii.s] CD45RA Bi SparkBlue 550 [ii] NKG2D Vii BV650 [ii.s] CCR7 Bi PE-CF594 [ii] CD26 Vii BV650 [ii.s] CCR7 Bi PE-CY5.5 [ii.s] NKG2D Vii BV711 [ii] CD7 Bii PE-CY5.5 [ii] NKG2D Vii BV750 [ii] CD7 Bii PE-CY5.5 [ii] NKG2D Vii BV750 [ii] CD7 Bii PE-CY5.5 [ii] NKG2D Vii BV750 [ii] CD7 Bii APC-R700 [ii] Vii BV750 [ii] APC-R700 [ii] APC-Fire 750 [ii]	3	<u>a</u>			<u> </u>	[3]		[2]				[2]	1	
Violet Blue Red AFACT [4] CD127 Blue Red BV421 [4] CD14/19 Red Red BV480 [1] CD14/19 Red Red BV510 [1,5] CD45RA Red Red BV570 Red AF488- BV570 [1,5] heB1d Red BV570 Red AF488- BV570 [1,5] heB1d Red BV650 [3] CD56 Red PE-CF594 [4] CD26 Red BV650 [3,6] CCR7 Red PE-CF594 [4] CD26 Red APC-R700 [3,9] BV711 [4] CD7 Red PE-CY5.5 [2] TNFa Red APC-R700 [3,9] BV786 [3] CCR6 Red PE-CY5.5 [2] TNFa Red APC-R700 [3,9] BV786 [3] CCR6 Red PE-CY5.5 [2] TNFa Red APC-R700 [3] BV786 [3] CCR6 Red PE-Vio770 [3] PD1 Red APC-Fire 750 [3] </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>CD69</td> <td></td> <td>CD8</td> <td>ĄF</td> <td></td> <td></td> <td>CD62L</td> <td></td> <td></td>						CD69		CD8	ĄF			CD62L		
Red	V15	V14	V12 V13	-		6 &	5 8	<u></u>	≨ £	53	<u> </u>		1	
CD127 Blue Red Red			BV711	000	BV605	BV570	BV510		BV480	PacBlue	BV421			Violet
Blue Red Red	[3]	[2.5]	4	[3.5]	<u> </u>		[1.5]	3	3	3			T	1
Blue Red Red Red Red Red Red Red Red				CCR	CD56		CD45RA			CD14/19	CD127			
Red Red Red Red Red Red Red Red	B12 B13 B14	B11	B9 B10	B7 B8	B5 B6	B4	B2	B1					T	1
Red Red Red Red APC CD3 NKG2D CD26 R1 APC CD25 R2 AF647 TNFa R3 APC-R700 R5 Zombie NIR R6 Zombie NIR R7 APC-Fire 750 [3]	Pe-Vio770		PerCP-Cy5.5	PE-Cy5	PE-CF594	PE	AF 488 SparkBlue 550	# # # # # # # # # # # # # # # # # # # #					Biue	
Red Red Red Red Red Red Red Red	<u> </u>		[2]	14.54	4	E	[1.5]		*	C			1	
Red Red APC APC-R700 APC-R700 APC-Fire 750 APC-Fire 750 APC-Fire 810 APC-FIRE	PD1		TNFa	CD25	CD26	NKG2D	hebtd CD3	3	THE STATE OF THE S	24				
APC [3.5] AF647 [3.5] PC-R700 [3] C-Fire 750 [2]	R6 R7	R5	R ₃	R2 R3										
[3.5] [3.5] [5.5]	Zombie NIR APC-Fire 750		APC-R700	APC AF647									Red	1/4/2023
CD16 hMR1 CD107a CD27			<u>u</u>	[3.5]										ن
	CD27		CD107a	CD16										

1/4/2023



Unmixing: 0.98 similarly old as PMA hymphocyles.

MMR/427 elister

COHS DN2

Va7.2+ 703 550/703 ≈.782

1 THC ° 170 /751 ≈ .226

2 H-T-c : 334/839 = .398

3 H-C-T : 194/776 2.250

4 HT-c : 196/726 = . 269

5 H-Te : 446/1088 = .409

Va.7.2 ~ 1.000 THC ~ 0.289 HTC ~ 0.5081 HCT ~ 0.319 HT-C ~ 0.343 HTC ~ 0.523 0.38 H-C-T1 0.82 H-T-C

0.098 H-TCI

0.044 T-14-0

0.052 TH-c

0.21 Va.7.2

PacMAP of 188, 228 cells

15 No huridary
violath or AF

Va CD4- PacMAP > 3900

concal -30 TP2

