	<u>Voltage</u>
FSC-488	330
SSC-488	583

Rank	<u>Fluorophore</u>	<u>Voltage</u>	<u>Notes</u>
1	PE	540	
2	APC	600	
3	FITC	500	
4	BV421	535	
5	PECy7	650	
6	BV510	550	
7	PE/Dazzle594	575	
8	APC/Cy7	650	
9	BV605	600	
10	BV786	600	
11	BV711	600	
12	BV650	650	
13	BUV395	600	
14	BUV563	600	
15	BUV737	600	
16	BUV805	650	
17	PerCPCy5.5	580	Comp issue with PEDazzle 594 and autofluorescence, however, good if not using Dazzle594
18	APC/Fire 810	700	Not best signal and big comp with APC/Cy7
19	BUV661	600	Very bad spillover into APC
20	BUV496	600	Poor signal
21	AlexaFluor 700	640	Dim and bad spillover into PerCPCy5.5. BUV661, and BUV737 spilling in badly as well.

^{*}This ranking is based on a combination of brightness on the ZE5, antibody availability, spillover into other channels, and fluorophore cost. There is no exact formula used, but rather David's qualitative assessment.

Method: B6 mouse LN cells (1x10^6 per well) were single stained at 1:200 with anti-CD4 (clone GK1.5) conjugated to each color listed above in FACS buffer for 15 minutes on ice, washed 2 times, and run in 96 well plates. Voltages were adjusted for good separation of the positive and negative peak, with positive signal ranging from 10^3-10^4. All antibodies were purchased from Biolegend or BD Biosciences.

Compensation Matrix																×						
Rese	et		Α	rea Heigh	nt																	
		FITC.	DCD C	DIIV 664	DUIV 727	DIIV OAE	DIIV 205	DIIV 563	DIIV 406	DV CEO	Spill BV 711,		DV 424	DV COE	DV 540	DE C-7	DE DI	D.F.	Al 700	ADC C.7	ADC C:	ADC
	FITC				BUV 737,		-	-	-		_	_	BV 421 _s	BV 605 _s	BV 510,		PE-Dazzl	PE,		,	APC-Fire	
P B B	PerCP-C	1 2 220/	0.00%	0.00%	0.00%	0.00%	0.00%	1.25%	3.61%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.25%	0.00%	0.00%	0.00%	0.00%
		3.23%	1	4.84%	16.54%	0.00%	0.00%	3.89%	0.16%	1.86%	11.61%	0.05%	0.00%	4.65%	0.00%	2.63%	63.50%	19.65%	1.71%	0.10%	0.10%	2.79%
	BUV 661,,	0.07%	6.42%	1	0.95%	0.15%	0.04%	8.72%	1.51%	13.73%	1.79%	0.09%	0.02%	7.60%	2.50%	0.04%	1.58%	0.53%	0.18%	0.16%	0.23%	4.40%
	BUV 737 _m	0.01%	2.61%	15.82%	1	1.78%	0.00%	0.69%	0.06%	1.96%	13.76%	4.20%	0.00%	1.12%	0.26%	1.27%	0.13%	0.02%	0.56%	0.59%	0.02%	0.61%
	BUV 805,,,	0.01%	1.29%	7.63%	58.15%	1	0.01%	0.22%	0.04%	0.90%	9.52%	23.59%	0.00%	0.56%	0.12%	7.27%	0.04%	0.01%	0.19%	3.79%	4.26%	0.22%
	BUV 395 _m	0.40%	0.77%	12.55%	22.78%	40.05%	1	20.89%	17.15%	0.23%	0.00%	0.44%	0.13%	0.29%	0.00%	0.33%	0.18%	0.13%	0.00%	0.00%	0.42%	0.18%
E	BUV 563 _m	0.81%	0.35%	0.29%	0.41%	0.71%	0.28%	1	16.74%	0.14%	0.18%	0.21%	0.24%	2.26%	12.32%	0.32%	0.83%	8.01%	0.40%	0.13%	0.25%	0.11%
	BUV 496 _m	2.63%	1.29%	1.72%	2.86%	5.18%	3.61%	3.11%	1	0.38%	0.93%	1.02%	3.11%	0.48%	26.08%	0.71%	0.39%	0.28%	1.47%	0.71%	0.67%	0.41%
	BV 650 _m	0.10%	26.71%	14.25%	0.05%	0.00%	0.00%	0.58%	0.57%	1	11.19%	0.42%	0.08%	53.33%	13.84%	0.04%	5.73%	1.81%	0.22%	0.30%	0.53%	11.39%
*luorophore	BV 711 _m	0.01%	19.81%	3.07%	7.89%	0.02%	0.00%	0.04%	0.04%	23.75%	1	4.17%	0.01%	11.56%	2.97%	0.43%	1.07%	0.30%	3.70%	0.14%	0.05%	1.86%
Fluor	BV 786 _m	0.00%	7.60%	0.75%	6.90%	3.42%	0.00%	0.02%	0.01%	6.12%	44.48%	1	0.00%	3.89%	0.95%	17.27%	0.23%	0.03%	1.18%	6.65%	6.21%	0.55%
	BV 421 _m	0.02%	0.03%	0.08%	0.15%	0.33%	0.15%	0.14%	0.12%	5.42%	13.42%	9.66%	1	4.66%	0.07%	0.01%	0.01%	0.01%	0.04%	0.02%	0.02%	0.01%
	BV 605 _m	0.53%	0.00%	0.50%	0.00%	0.00%	0.00%	2.40%	2.19%	18.55%	0.25%	0.29%	0.41%	1	32.60%	0.16%	16.21%	7.14%	0.07%	0.00%	0.00%	0.09%
	BV 510 _m	4.17%	0.21%	0.00%	0.18%	0.00%	0.00%	0.58%	23.24%	0.70%	1.79%	1.56%	11.87%	0.62%	1	0.00%	0.00%	0.07%	0.25%	0.00%	0.00%	0.00%
	PE-Cy7 _m	0.00%	4.01%	1.11%	0.99%	0.33%	0.00%	0.04%	0.01%	0.30%	0.86%	0.72%	0.00%	0.63%	0.00%	1	2.16%	0.39%	0.52%	8.01%	4.75%	0.90%
	PE-Dazzl	0.00%	0.01%	0.92%	0.01%	0.03%	0.00%	12.77%	0.02%	1.35%	0.01%	0.01%	0.00%	19.92%	0.00%	0.68%	1	37.19%	0.04%	0.02%	0.01%	0.13%
ı	PE _m	0.00%	0.01%	0.01%	0.01%	0.01%	0.00%	27.55%	0.01%	0.01%	0.01%	0.01%	0.00%	7.37%	0.00%	1.77%	18.11%	1	0.03%	0.01%	0.00%	0.00%
	Alexa 70	0.00%	35.43%	95.65%	91.10%	0.25%	0.00%	0.00%	0.00%	10.94%	53.07%	0.68%	0.00%	0.02%	0.00%	1.42%	0.06%	0.00%	1	9.42%	4.80%	63.72%
	APC-Cy7 _m	0.00%	6.99%	14.33%	36.84%	9.26%	0.00%	0.00%	0.00%	1.54%	11.85%	7.45%	0.00%	0.01%	0.01%	20.55%	0.01%	0.00%	20.32%	1	25.20%	10.94%
	APC-Fire	0.10%	3.64%	6.49%	22.41%	16.85%	0.00%	0.12%	0.00%	0.88%	6.16%	5.21%	0.00%	0.00%	0.00%	11.35%	0.04%	0.00%	11.53%	55.71%	1	6.36%
	APC "	0.00%	9.92%	114.61%	0.24%	0.00%	0.00%	0.00%	0.00%	12.04%	1.76%	0.02%	0.00%	0.02%	0.00%	0.02%	0.07%	0.00%	1.14%	2.99%	5.12%	1

^{**}Table reads as Fluorophore on interest in the columns (along the top) and spillover into the other channels of interest in the rows. Eg. you can see BUV661 spills very strongly into the Alexa700 (95%) and APC channels (114%).