

Symphony A5

Flow Cytometry & Single Cell Analysis

<https://fcsc.ku.dk/>

Primary Fluorochrome (Dim Antigen)	Secondary Fluorochrome (Bright Antigen)																																									
	BUV395	BUV496	BUV563	BUV615	BUV661	BUV737	BUV805	BV421	BV480	BV510	BV570	BV605	BV650	BV711	BV750	BV786	FITC	AF 488	BB515	BB630	BB613	BB660	PerCP-Cy5.5	BB700	RB705	RB744	RB780	PE	PE-CF594	RV610	PE-Cy5	PE-Cy7	APC	AF 647	AF 700	APC-R700	APC-Cy7	APC-Fire 750	APC-eFluor 780			
BUV395	102	13%	17%	9%	13%	10%	21%	10%	3%	3%	0%	0%	2%	3%	6%	3%	14%	13%	3%	6%	9%	3%	8%	9%	4%	4%	4%	4%	4%	3%	11%	4%	15%	6%	15%	11%	12%	8%	12%	9%	12%	9%
BUV496	20%	54	4%	6%	7%	6%	8%	18%	32%	12%	4%	3%	6%	4%	4%	3%	8%	0%	13%	4%	3%	3%	3%	0%	4%	4%	6%	6%	3%	1%	6%	8%	7%	3%	9%	0%	9%	0%	9%	0%	9%	0%
BUV563	37%	159	37%	6%	6%	5%	12%	18%	14%	50%	31%	3%	5%	5%	3%	5%	0%	8%	22%	8%	11%	5%	5%	3%	3%	6%	71%	12%	6%	8%	5%	6%	0%	6%	0%	6%	0%	9%	0%	6%	0%	
BUV615	6%	35%	71%	293	37%	8%	6%	6%	17%	18%	52%	70%	19%	4%	3%	2%	6%	6%	3%	75%	67%	16%	2%	12%	2%	0%	3%	56%	45%	17%	8%	3%	6%	4%	6%	6%	4%	3%	6%	0%		
BUV661	5%	23%	57%	80%	389	21%	6%	8%	13%	13%	41%	66%	67%	34%	7%	5%	7%	2%	3%	66%	50%	76%	46%	60%	29%	2%	2%	37%	37%	13%	72%	0%	64%	13%	10%	20%	16%	7%	16%			
BUV737	6%	19%	50%	77%	559	22%	6%	13%	16%	36%	66%	66%	31%	75%	58%	12%	6%	3%	62%	46%	74%	54%	74%	77%	74%	35%	30%	34%	14%	71%	39%	60%	19%	30%	64%	25%	20%	21%				
BUV805	6%	17%	31%	66%	84%	52%	480	9%	9%	13%	24%	52%	50%	77%	78%	91%	7%	9%	5%	42%	27%	60%	45%	69%	74%	75%	78%	21%	23%	13%	54%	79%	43%	11%	26%	57%	68%	69%	67%			
BV421	6%	7%	9%	11%	14%	7%	9%	412	14%	18%	43%	41%	34%	47%	39%	69%	18%	32%	14%	22%	23%	22%	16%	31%	15%	14%	16%	41%	16%	26%	34%	31%	20%	34%	24%	28%	19%	29%	21%			
BV480	7%	19%	4%	7%	11%	8%	12%	11%	41	13%	14%	16%	16%	17%	15%	24%	33%	15%	17%	14%	17%	17%	24%	16%	19%	20%	15%	18%	21%	22%	36%	21%	38%	32%	27%	23%	28%	26%				
BV510	7%	19%	4%	7%	11%	8%	12%	10%	8	13%	14%	16%	16%	17%	15%	23%	33%	15%	17%	15%	17%	17%	25%	16%	19%	20%	15%	18%	21%	22%	36%	21%	38%	32%	27%	23%	28%	26%				
BV570	0%	8%	27%	23%	6%	3%	2%	8%	34%	18%	62	57%	11%	8%	6%	1%	15%	0%	5%	51%	8%	19%	8%	3%	6%	6%	7%	78%	27%	5%	21%	13%	9%	0%	13%	0%	10%	0%	11%			
BV605	4%	13%	34%	63%	16%	4%	3%	9%	35%	15%	65%	112	33%	10%	3%	0%	9%	0%	10%	80%	46%	37%	7%	17%	3%	2%	4%	80%	66%	2%	38%	0%	14%	0%	4%	0%	3%	7%	6%			
BV650	5%	10%	16%	47%	70%	7%	5%	9%	24%	21%	60%	77%	81	56%	8%	13%	12%	9%	4%	75%	62%	82%	61%	75%	43%	0%	4%	54%	52%	27%	86%	1%	68%	15%	10%	27%	16%	7%	13%			
BV711	7%	9%	12%	43%	67%	37%	37%	6%	9%	22%	24%	59%	78%	78%	246	56%	46%	16%	15%	2%	73%	63%	82%	67%	84%	69%	28%	7%	41%	44%	22%	75%	9%	61%	19%	22%	55%	22%	15%	15%		
BV750	5%	7%	10%	31%	57%	66%	30%	8%	20%	19%	50%	73%	73%	87%	267	93%	11%	7%	2%	65%	35%	76%	64%	81%	72%	75%	62%	27%	33%	11%	69%	73%	51%	14%	31%	60%	55%	52%	51%			
BV786	4%	6%	9%	26%	50%	63%	63%	10%	16%	17%	42%	70%	69%	90%	92%	528	10%	3%	3%	60%	24%	73%	60%	80%	72%	72%	80%	22%	29%	8%	63%	85%	46%	13%	30%	56%	71%	73%	72%			
FITC	0%	3%	4%	0%	3%	0%	3%	0%	6%	4%	3%	3%	4%	6%	4%	3%	12	9%	12%	8%	6%	12%	8%	10%	13%	9%	6%	10%	8%	16%	7%	21%	9%	12%	8%	10%	8%	10%	8%			
Alexa Fluor 488	0%	3%	4%	0%	3%	0%	3%	0%	6%	4%	3%	3%	4%	6%	4%	3%	12	9%	12%	8%	6%	12%	8%	10%	13%	9%	6%	10%	8%	16%	7%	21%	9%	12%	8%	10%	8%	10%	8%			
BB515	0%	3%	4%	0%	3%	0%	3%	0%	6%	4%	3%	3%	4%	6%	4%	3%	12	9%	12%	8%	6%	12%	8%	10%	13%	9%	6%	10%	8%	16%	7%	21%	9%	12%	8%	10%	8%	10%	8%			
BB630	6%	7%	48%	80%	10%	4%	5%	4%	7%	0%	41%	55%	8%	8%	8%	4%	18%	2%	25%	16%	19%	31%	4%	4%	8%	8%	12%	85%	82%	28%	29%	18%	10%	0%	13%	0%	6%	0%	9%			
BB613	6%	7%	48%	80%	10%	4%	5%	4%	7%	0%	41%	55%	8%	8%	8%	4%	18%	2%	25%	16%	19%	31%	4%	4%	8%	8%	12%	85%	82%	28%	29%	18%	10%	0%	13%	0%	6%	0%	9%			
BB660	0%	5%	34%	65%	83%	6%	3%	3%	5%	16%	34%	50%	33%	11%	6%	0%	13%	24%	16%	78%	83%	21%	54%	77%	60%	9%	11%	71%	20%	73%	68%	97%	9%	83%	41%	8%	40%	23%	20%	17%		
PerCP-Cy5.5	5%	7%	25%	40%	43%	62%	4%	5%	5%	21%	21%	31%	12%	53%	25%	10%	34%	29%	17%	81%	85%	87%	52	84%	69%	68%	72%	54%	90%	72%	30%	30%	16%	56%	35%	25%	11%	11%				
BB700	5%	7%	25%	40%	43%	62%	4%	5%	5%	21%	21%	31%	12%	53%	25%	10%	34%	29%	17%	80%	85%	87%	374	84%	69%	68%	72%	54%	90%	72%	30%	30%	16%	56%	35%	25%	11%	11%				
RB705	5%	7%	25%	40%	43%	62%	4%	5%	5%	21%	21%	31%	12%	53%	25%	10%	34%	29%	17%	80%	85%	87%	1007	84%	69%	68%	72%	54%	90%	72%	30%	30%	16%	56%	35%	25%	11%	11%				
RB744	5%	6%	23%	31%	47%	81%	17%	7%	8%	8%	21%	31%	14%	61%	65%	48%	14%	12%	16%	78%	79%	80%	73%	89%	93%	723	92%	62%	69%	41%	89%	93%	30%	19%	20%	51%	39%	36%	36%			
RB780	3%	4%	19%	44%	50%	75%	43%	6%	6%	4%	21%	37%	18%	55%	56%	65%	8%	10%	10%	71%	71%	81%	68%	85%	93%	99%	690	59%	65%	48%	69%	97%	46%	22%	23%	68%	76%	76%	75%			
PE	4%	13%	76%	68%	7%	4%	6%	4%	12%	15%	71%	67%	3%	4%	6%	3%	7%	20%	4%	59%	54%	6%	5%	15%	3%	3%	4%	336	65%	70%	45%	30%	7%	21%	7%	16%	6%	6%				
PE-CF594	6%	19%	70%	91%	29%	9%	6%	7%	10%	2%	65%	76%	17%	7%	7%	4%	10%	0%	6%	87%	73%	16%	7%	1%	5%	5%	4%	86%	167	33%	17%	12%	1%	10%	0%	11%	0%	8%				
RV610	3%	4%	32%	70%	86%	4%	3%	2%	3%	6%	36%	54%	38%	12%	0%	0%	7%	8%	2%	63%	58%	82%	41%	31%	23%	2%	3%	65%	70%	70%	509	9%	60%	42%	8%	36%	23%	12%	20%			
PE-Cy5	1%	5%	22%	64%	69%	65%	46%	2%	1%	2%	28%	53%	29%	53%	37%	58%	7%	5%	0%	48%	43%	58%	57%	59%	58%	45%	55%	54%	68%	65%	51%	951	66%	46%	36%	63%	38%	38%				
PE-Cy7	3%	14%	44%	69%	95%	21%	5%	6%	9%	6%	24%	48%	61%	32%	7%	7%	12%	9%	11%	69%	70%	95%	54%	80%	62%	7%	5%	51%	53%	28%	95%	11%	201	18%	69%	51%	24%	45%				
APC	3%	14%	44%	69%	95%	21%	5%	6%	9%	6%	24%	48%	61%	32%	7%	7%	12%	9%	11%	69%	70%	95%	54%	80%	62%	7%	5%	51%	53%	28%	95%	11%	201	18%	69%	51%	24%	45%				
Alexa Fluor 647	3%	14%	44%	69%	95%	21%	5%	6%	9%	6%	24%	48%	61%	32%	7%	7%	12%	9%	11%	69%	70%	95%	54%	80%	62%	7%	5%	51%	53%	28%	95%	11%	201	18%	69%	51%	24%	45%				
Alexa Fluor 700	7%	10%	13%	39%	92%	91%	13%	7%	11%	13%	26%	50%	65%	90%	56%	33%	10%	13%	4%	49%	40%	91%	64%	88%	94%	68%	15%	25%	27%	13%	90%	28%	91%	80%	56	63%	51%	57%				
APC-R700	7%	10%	13%	39%	92%	91%	13%	7%	11%	13%	26%	50%	65%	90%	56%	33%	10%	13%	4%	49%	40%	91%	64%	87%	94%	68%	15%	25%	27%	13%	90%	28%	91%	80%	56	63%	51%	57%				
APC-Cy7	3%	4%	3%	9%	75%	76%	70%	3%	3%	2%	3%	7%	26%	67%	62%	79%	4%	0%	1%	7%	9%	72%	40%	69%	74%	63%	59%	6%	7%	3%	71%	67%	72%	64%	53%	82%	189	189				
APC-Fire 750	4%	4%	3%	9%	75%	76%	70%	3%	3%	2%	3%	7%	26%	67%	62%	79%	4%	0%	1%	7%	9%	72%	40%	69%	74%	63%	59%	6%	7%	3%	71%	67%	72%	64%	53%	82%	189	189				
APC-eFluor 780	3%	3%	3%	9%	75%	76%	70%	3%	3%	2%	3%	7%	26%	67%	62%	79%	4%	0%	1%	7%	9%	72%	40%	69%	74%	63%	59%	6%	7%	3%	71%	67%	72%	64%	53%	82%	189	189				

How the matrix was made

Mouse spleens was stained with individual anti-CD8 labeled antibodies with the indicated fluoro-chrome and analyzed on the indicated instrument. Each calculated value was arbitrarily assigned a color code according to the legend to show where the biggest spreading was situated.

How to use the resolution impact matrix

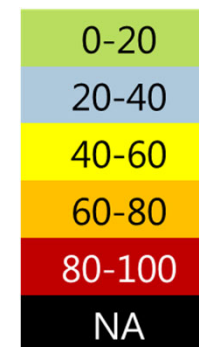
You find the color of interest on the top of the matrix, go down till you find the channel that you need to combine the color with and read the impact of spreading.

Consider this for panel design

When you are designing larger panels the task of making correct combinations becomes more difficult, but using the list below can help you:

- The lineage markers such as CD4, CD19 etc. should be found on the top of the matrix.
- Make sure the lineage marker has as many green cells as possible.
- For an important marker you should find the color on the left of the matrix.
- Make sure the marker has as many green cells as possible when you move across the matrix.
- Notice that spreading occurs between different laser lines.

Amount of spreading (%)



Relative fluoro-chrome brightness (AU)

