

Cytek® cFluor® 14 Color Immunoprofiling™ Kit Expansion Guide

Approx. Emission Wavelength (nm)	UV	Violet	Blue	Yellow Green	Red
395	BUV395 (if UV Laser)				
420		CD3 cFluor® V420			
421		BV421 (no co-expression cFluor® V420, cFluor® V450)			
450		CD14 cFluor® V450			
480	Live/Dead Blue	BV480 (no co-expression cFluor® V450, avoid co-expression with BV510)			
490	BUV496 (use for subset marker or no co-expression with BV510, spread with B515)				
510		BV510 (avoid co-expression cFluor® V547, co-expression BV480; no subset markers of BUV496)			
520			CD8 cFluor® B515		
530			BV 532 (no co-expression cFluor® B515, cFluor® B548)		
550		CD45 cFluor® V547	cFluor® B548 (no co-expression cFluor® B532)		
560	BUV563 (use for subset marker, or no co-expression BV570, PE)				
570		BV570 (no co-expression cFluor® V547)		CCR7 cFluor® BYG575	
600		BV605 (use a lineage marker when co-expressed with BYG610. No co-expression with V610)		cFluor® YG584 (if 561 laser) use for subset marker	
610	BUV615 (use for subset marker, or no co-expression BV605 or cFluor® BYG610)	cFluor® V610 (no coexpression BV605, BUV615, -BYG610)		cFluor® BYG610 (use for subset marker when co-expressed with BV605)	
640				PE-Fire™ 640 (no co-expression cFluor® BYG610, cFluor® BYG667)	
650		BV650 (avoid co-expression with cFluor® R659 and BB660)			CD127 cFluor® R659
660	BUV661 (use for subset marker or no co-expression cFluor® R659, cFluor® R668, cFluor® R685)			IgD cFluor® BYG667	
670					CD16 cFluor® R668
680			cFluor® B675 (no co-expression cFluor® B690 ex: CD15 on grans)		cFluor® R685 (no co-expression cFluor® R668, ex: CD138)
690			CD45RA cFluor® B690		
710		BV711 (no co-expression cFluor® BYG710, PerPC-eFluor™710)	PerCP-eFluor™ 710 (no co-expression cFluor® B690)	CD19 cFluor® BYG710	
730					CD56 cFluor® R720
740	BUV737 (avoid co-expression BV750, cFluor® BYG750, and BB755)				
750		BV750 (avoid co-expression BUV737)		cFluor® BYG750 (no co-expression BB755, BV750)	ViaDye™ Red
780		BV785 (no co-expression BUV805)		CD25 cFluor® BYG781	CD4 cFluor® R780
800	BUV805 (no co-expression BV785)				
820					
840					CD27 cFluor® R840

Key:	Definitions:
Backbone marker from Kit	Lineage - only bright expression like CD3
Drop Anything	
Drop Anything. If using other drop-ins make note	Subset of Lineage - bright expression but continuous pattern to the negative like CD8
Ideal T-Cell Marker	
Ideal B-Cell Marker	
Ideal NK-Cell Marker	
Leave empty	

Violet		Blue		Red	
Specificity	Fluorochrome	Specificity	Fluorochrome	Specificity	Fluorochrome
CD3	cFluor V420	CD8	cFluor B515	CD127	cFluor R659
CD14	cFluor V450	CCR7	cFluor BYG575	CD16	cFluor R668
CD45	cFluor V547	IgD	cFluor BYG667	CD56	cFluor R720
		CD45RA	cFluor B690	CD4	cFluor R780
		CD19	cFluor BYG710	Viability	ViaDye Red
		CD25	cFluor BYG781	CD27	cFluor R840



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