

Cytek® 25-Color Immunoprofiling Assay Expansion Guide

Key and Definitions

Approx. Emission Wavelength (nm)	UV	Violet	Blue	Yellow Green	Red	Key:	
395	BUV395					Backbone Marker from Kit	Definitions: Lineage- only bright expression like CD3 Subset of lineage- bright expression but continuous pattern to the negative like CD8 Dim- for example exhaustion marker on T Cell
421		CCR7 BV421				Drop lineage or high expressed markers	
440		SuperBright 436				Drop anything. If using other drop-in's make note	
450		CD45RA cFluor V450				Ideal T-Cell Marker	
480		BV480 (no co-expression cFluor V450, avoid co-expression with BV510)				Ideal B-Cell Marker	
490	BUV496 (use for subset marker or no coexpression with BV510, spread with B515)					Ideal NK-Cell Marker	
510		IgM BV510				Ideal DC and/or Macrophage Marker	
520			CD141 cFluor B515			Leave empty	
530			CD8 cFluor B532			Ideal Granulocyte/ Neutrophils/basophils Marker	
550		CD20 cFluor V547	CD14 cFluor B548				
560	BUV563 (use for subset marker, or no coexpression BV570, PE/BYG575)						
570		CD3 BV570		CD25 cFluor BYG575			
600		BV605 (use a lineage marker when co-expressed with BYG610. No-coexpression with V610)		CD4 cFluor YG584			
610	BUV615 (use for subset marker, or no co-expression BV605 or BYG610)	cFluor V610 (no co-expression BV605, BUV615, BYG610)		CD16 cFluor BYG610			
640			BB630 Dim markers	PE-Fire640 (no co-expression cFluor BYG610, cFluor BYG667)			
650		CD28 BV650			CD127 cFluor R659		
660	BUV661 (use for subset marker or no coexpression cFluor R659, cFluor R668, cFluor R685)		BB660 Dim markers	IgD cFluor BYG667			
670					CD1c cFluor R668		
680			cFluor B677 (no co-expression with cFluor B690)		CD19 cFluor R685		
690			HLA-DR cFluor B690				
710		CD38 BV711	PerCP-eFluor 710 (no co-expression cFluor B690)	TCRGD cFluor BYG710			
730					CD123 cFluor R720		
740	BUV737 (avoid co-expression BV750, cFluor BYG750, and BB755)						
750		CD56 BV750	BB755 Dim markers	cFluor BYG750 (no co-expression BB755, BV750)	ViaDyeRed		
780		PD-1 BV785	BB790 Dim markers	CD11c cFluor BYG781	CD45 cFluor R780		
800	BUV805 (no co-expression BV785)						
820				PE-Fire810 (no co-expression with BB790)			
840					CD27 cFluor R840		

