

# Cytek® 25 Color Immunoprofiling Assay Expansion Guide

| Approx. Emission Wavelength (nm) | UV  | Violet   | Blue  | Yellow Green   | Red                |
|----------------------------------|---|--|---|--|--------------------|
| 395                              | BUV395  |  |   |  |                    |
| 421                              |   | CCR7 BV421   |   |  |                    |
| 440                              |   | Super Bright™ 436  |   |  |                    |
| 450                              |   | CD45RA cFluor® V450  |   |  |                    |
| 480                              |   | 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                              |   | IgM BV510  |   |  |                    |
| 520                              |   |  | CD141 cFluor® B515                                |  |                    |
| 530                              |   |  | CD8 cFluor® B532                                  |  |                    |
| 550                              |   | CD20 cFluor® V547  | CD14 cFluor® B548                                 |  |                    |
| 560                              | BUV563 (use for subset marker, or no co-expression BV570, PE/ BYG575)                       |  |   |  |                    |
| 570                              |   | CD3 BV570  |   | CD25 cFluor® BYG575  |                    |
| 600                              |   | BV605 (use a lineage marker when co-expressed with BYG610. No co-expression 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-Fire™ 640 (no co-expression cFluor® BYG610, cFluor® BYG667) |                    |
| 650                              |   | CD28 BV650   |   |  | CD127 cFluor® R659 |
| 660                              | BUV661 (use for subset marker or no co-expression cFluor® R659, cFluor® R668, cFluor® R685) |  | BB660 Dim markers                                 | IgD cFluor® BYG667   |                    |
| 670                              |   |  |   |  | CD1c cFluor® R668  |
| 680                              |   |  | cFluor® B675 (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)  | TCRγδ 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)                 | ViaDye™ Red        |
| 780                              |   | PD-1 BV785   | BB790 Dim markers                                 | CD11c cFluor® BYG781   | CD45 cFluor® R780  |
| 800                              | BUV805 (no co-expression BV785)   |  |   |  |                    |
| 820                              |   |  |   | PE-Fire™ 810 (no co-expression with BB790)                     |                    |
| 840                              |   |  |   |  | CD27 cFluor® R840  |

| Key:   | Definitions:  |
|--|---|
| Backbone marker from Kit                         |   |
| Drop Anything                                    |   |
| Drop Anything. If using other drop-ins make note | Lineage - only bright expression like CD3   |
| Ideal T-Cell Marker                              |   |
| Ideal B-Cell Marker                              | Subset of Lineage - bright expression but continuous pattern to the negative like CD8 |
| Ideal NK-Cell Marker                             |   |
| Ideal marker and/or Macrophage Marker            | Dim - for example exhaustion marker on T Cell   |
| Leave empty                                      |   |
| Ideal Granulocyte/Neutrophils/basophils Markers  |   |

| Violet      |          |              | Blue        |       |              | Yellow-Green |       |               | Red         |         |              |
|-------------|----------|--------------|-------------|-------|--------------|--------------|-------|---------------|-------------|---------|--------------|
| Specificity | Clone    | Fluorochrome | Specificity | Clone | Fluorochrome | Specificity  | Clone | Fluorochrome  | Specificity | Clone   | Fluorochrome |
| CCR7        | G043H7   | BV421        | CD141       | M80   | cFluor B515  | CD25         | BC96  | cFluor BYG575 | CD127       | A019D5  | cFluor R659  |
| CD45RA      | HI100    | cFluor V450  | CD8         | SK1   | cFluor B532  | CD4          | SK3   | cFluor YG584  | CD1c        | L161    | cFluor R668  |
| IgM         | MHM-88   | BV510        | CD14        | 63D3  | cFluor B548  | CD16         | 3G8   | cFluor BYG610 | CD19        | H1B19   | cFluor R685  |
| CD20        | 2H7      | cFluor V547  | HLADR       | L243  | cFluor B690  | IgD          | IA6-2 | cFluor BYG667 | CD123       | 6H6     | cFluor R720  |
| CD3         | UCHT1    | BV570        |             |       |              | TCRgd        | B1    | cFluor BYG710 | CD45        | 2D1     | cFluor R780  |
| CD28        | CD28.2   | BV650        |             |       |              | CD11c        | 3.9   | cFluor BYG781 | Viability   |         | ViaDye Red   |
| CD38        | HIT2     | BV711        |             |       |              |              |       |               | CD27        | QA17A18 | cFluor R840  |
| CD56        | 5.1H11   | BV750        |             |       |              |              |       |               |             |         |              |
| PD-1        | EH12.2H7 | BV785        |             |       |              |              |       |               |             |         |              |

Cytek® 25-Color Immunoprofiling Assay, cFluor® Reagent Kit (18C) includes 18 cFluor® reagents offered by Cytek Immunoprofiling Kit, 7 Color (Brilliant Violet™) includes 7 Brilliant Violet™ reagents available for purchase from BioLegend



For Research Use Only. Not for use in diagnostic or therapeutic procedures.

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