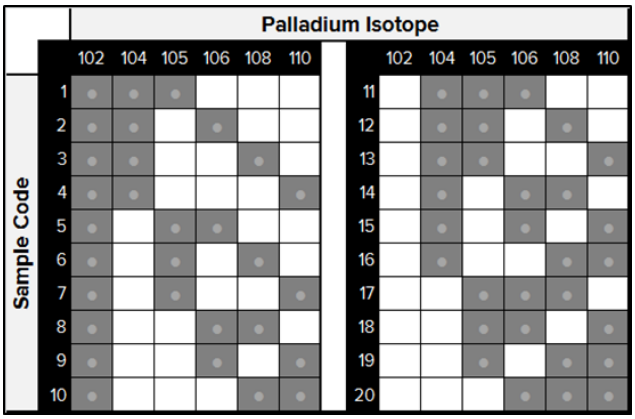
Cell-ID™ 20-Plex Pd Barcoding Kit

Catalog#: 201060
Package Size: 3 x 20-Plex Pd Barcode Sets and required barcoding solutions

Storage:
- Buffers and PBS: 4°C. Do not freeze.
- 20-plex Pd Barcode Sets: Upon receipt store at -20°C.

Contents:
- 3 sets of 20 Pd barcodes in PCR tube strips. Each tube contains 10 µL of pre-mixed barcode containing the indicated 3 palladium isotopes.
- MaxPar® Cell Staining Buffer (500 mL)
- MaxPar® Fix I Buffer (5X) (15 mL)
- MaxPar® Barcode Perm Buffer (10X) (50 mL)
- MaxPar® PBS (500 mL)



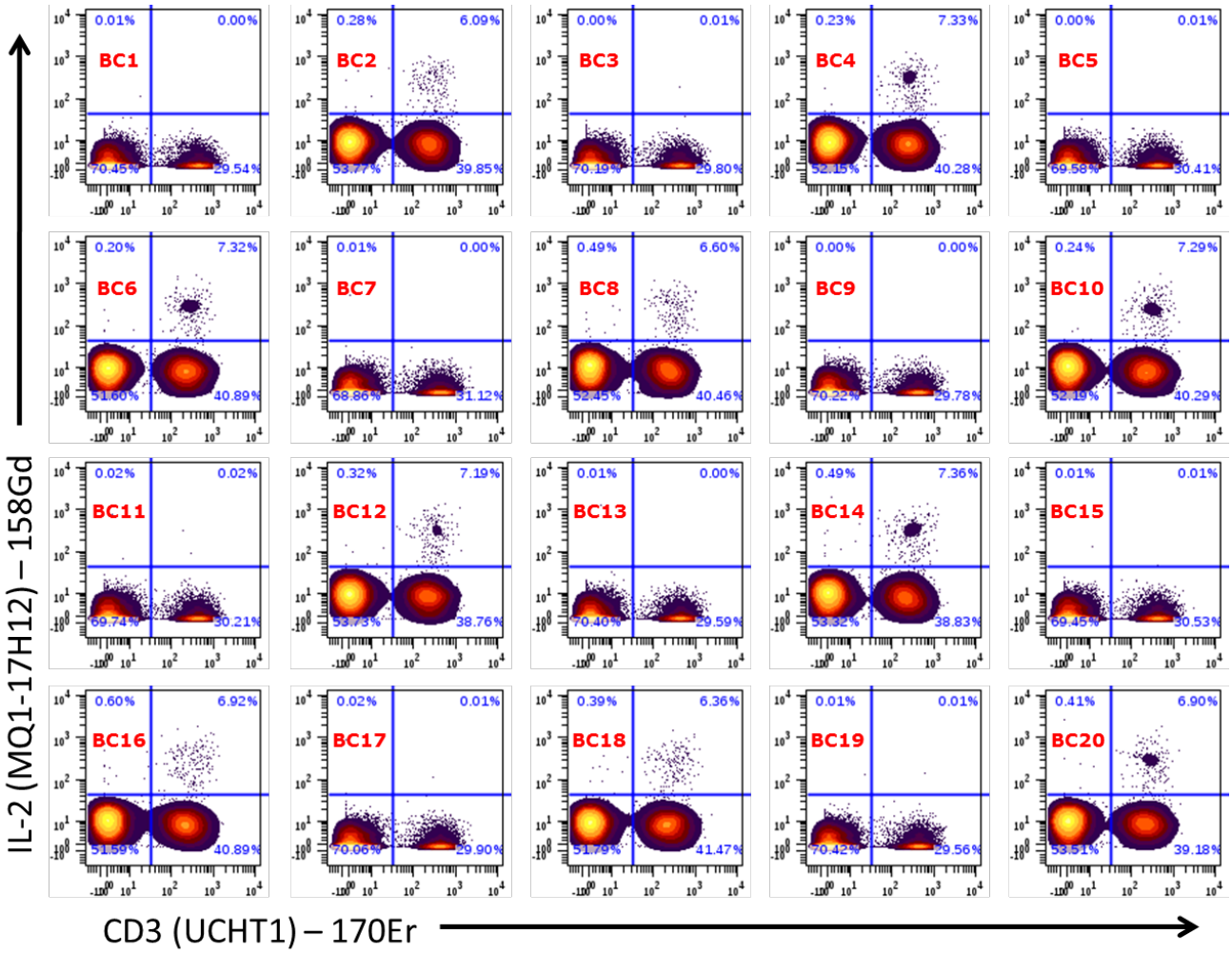
Technical Information

Description:

The Cell-ID 20-Plex Pd Barcoding Kit enables unique barcoding of 20 samples so they can be combined and subsequently stained and acquired as one multiplexed sample, followed by software debarcoding and individual sample analysis. Multiplexing samples improves data quality since the 20 samples are stained, processed and acquired as one sample, eliminating sample-specific staining and data collection variation.

Recommended Usage:

The Cell-ID 20-Plex Pd Barcoding Kit should be used according to the Cell-ID 20-Plex Pd Barcoding Kit User Guide, which can be downloaded from the kit's DOCS column in the website catalog. Barcoding cell samples with this kit is compatible with downstream staining of surface, intracellular, nuclear and phosphorylated antigen targets.



Human PBMCs were either unstimulated or treated for 5 hours with PMA, ionomycin, monensin and brefeldin A. The two samples were divided into 10 tubes each. The unstimulated tubes were barcoded with odd palladium barcodes, and the treated tubes were barcoded with even palladium barcodes. Following barcoding, the samples were combined and stained as one sample with 170Er anti-CD3 (UCHT1) and 158Gd anti-IL-2 (MQ1-17H12). The sample was acquired on a CyTOF® 2 mass cytometer, and the resultant fcs file was debarcoded with the CyTOF debarcoding software. Total viable cells are displayed in the analysis, and the number of events in each quadrant is indicated.

References:

Behbehani GK, Thom C, Zunder ER, Finck R, Gaudilliere B, Fragiadakis GK, Fantl WJ, Nolan GP. Transient partial permeabilization with saponin enables cellular barcoding prior to surface marker staining. Cytometry A. 2014 Dec;85(12):1011-9.

Zunder ER, Finck R, Behbehani GK, Amir el-AD, Krishnaswamy S, Gonzalez VD, Lorang CG, Bjornson Z, Spitzer MH, Bodenmiller B, Fantl WJ, Pe'er D, Nolan GP. Palladium-based mass tag cell barcoding with a doublet-filtering scheme and single-cell deconvolution algorithm. Nat Protoc. 2015 Feb;10(2):316-33.

For technical support visit fluidigm.com/support

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