

Maxpar Human T Cell Immuno-Oncology Expansion Panel Kit, 8 Marker

Catalog: 201321
 Package size: 25 tests

- Storage:
- Antibodies, buffers, and water: 4 °C. Do not freeze.
 - Intercalator-Ir: -20 °C

Contents:

- Maxpar[®] Cell Staining Buffer (500 mL)
- Maxpar Fix & Perm Buffer (25 mL)
- Maxpar Fix I Buffer (50 mL)
- Maxpar Perm-S Buffer (250 mL)
- Maxpar Water (500 mL)
- Cell-ID[™] Intercalator-Ir (125 µM; 25 µL)
- Maxpar Antibodies (see table for panel)**

Target	Clone	Metal
CD134 [OX40]	ACT35	150Nd
CD95 [Fas]	DX2	152Sm
CD366 [Tim-3]	F38-2E2	153Eu
CD279 [PD-1]	EH12.2H7	155Gd
CD152 [CTLA-4]	14D3	161Dy
CD278 [ICOS]	C398.4A	168Er
CD137 [4-1BB]	4B4-1	173Yb
CD223 [LAG3]	11C3C65	175Lu

** The antibodies are provided in individual tubes, not a pre-mixed cocktail.

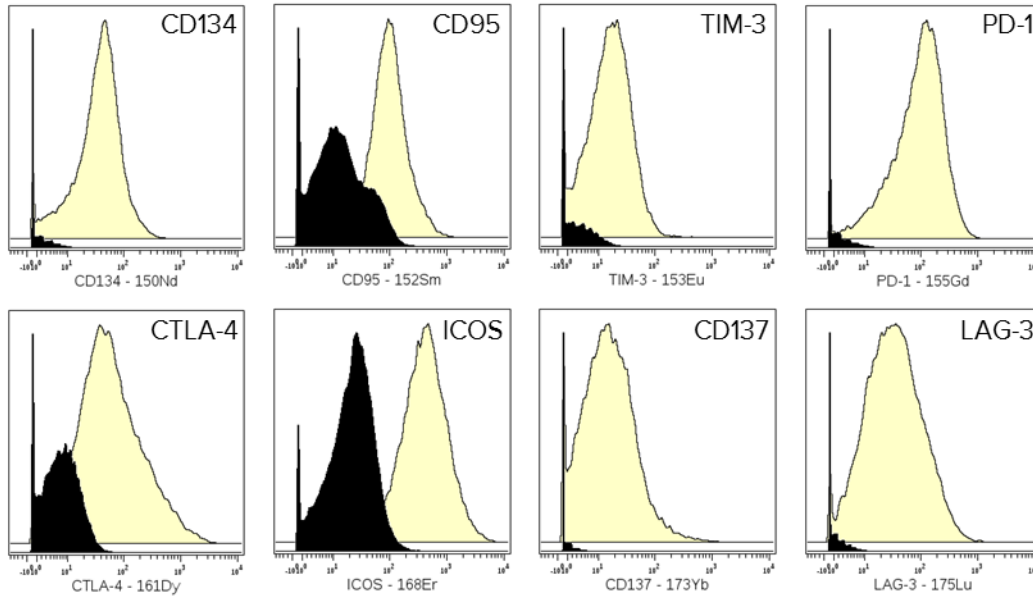
Technical Information

Description: The Maxpar Human T Cell Immuno-Oncology Expansion Panel Kit is designed to detect 8 checkpoint and activation markers commonly expressed on activated T cells in oncology settings. When combined with the 16 antibodies in the Maxpar Human T Cell Phenotyping Panel Kit and the 10 antibodies in the Maxpar Human T Cell Phenotyping Expansion Panel Kit, it enables mapping of the expression patterns of the included checkpoint and activation markers on all major T cell subsets, including naïve, central memory, effector, and effector memory CD4+ and CD8+ cells; naïve and memory Tregs; and Th1 and Th2 cells. The combined panel also enables the classification of the activation and homing status of these T cell subsets. The Maxpar Human T Cell Immuno-Oncology Expansion Panel Kit can be used in combination with custom-designed panels. The kit contains all the reagents needed to run a CyTOF[®] experiment, including buffers optimized for staining and a nucleic acid intercalator used for single-cell identification.

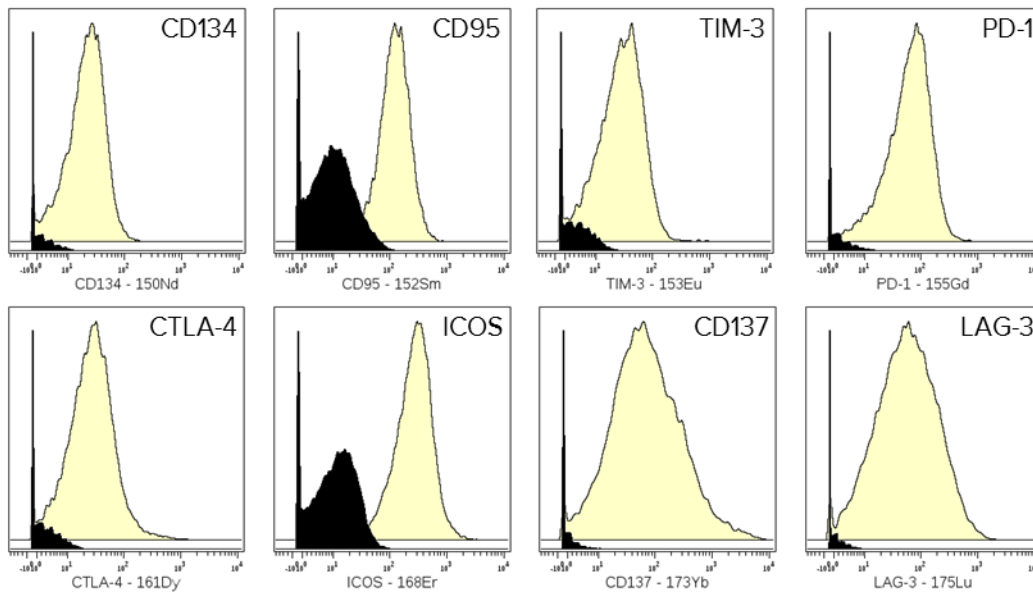
Recommended usage: For staining with the Maxpar Human T Cell Immuno-Oncology Expansion Panel Kit, prepare human whole blood or PBMCs using standard techniques and stain according to the [Maxpar Cytoplasmic/Secreted Antigen Staining Protocol](#). This protocol contains instructions for staining both cell surface and intracellular markers. Note that due to the intracellular localization of a large portion of CTLA-4, for complete detection it may be necessary to assess intracellular expression as well as surface expression of CTLA-4. Data collection is performed on a CyTOF mass cytometer.

Analysis: The .fcs files created can be analyzed by most programs designed for .fcs file analysis. An example analysis, "Human PBMC Basic Panel," is available for reference at Premium.Cytobank.org. (Results will vary due to donor and staining condition differences.)

CD4



CD8



Human PBMCs were incubated for 3 days with media alone (bottom histogram) or with media containing recombinant human IL-2 on a tissue culture plate coated with anti-human CD3 (OKT3) antibody (top histogram). After 3 days, the cells were stained with the 8 antibodies in the Maxpar Human T Cell Immuno-Oncology Expansion Panel Kit in combination with the 16 antibodies in the Maxpar Human T Cell Phenotyping Panel Kit and the 10 antibodies in the Maxpar Human T Cell Phenotyping Expansion Panel Kit, following the Maxpar Cytoplasmic/Secreted Antigen Staining Protocol. The expression of the 8 markers in the Maxpar Human T Cell Immuno-Oncology Expansion Panel Kit in CD4+ and CD8+ cells is displayed in the analysis. For gating strategy, please refer to the technical data sheet for the Maxpar Human T Cell Phenotyping Panel Kit and the Maxpar Human T Cell Phenotyping Expansion Panel Kit.

For technical support visit fluidigm.com/support.

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