

# 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<sup>®</sup> 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<sup>™</sup> 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.

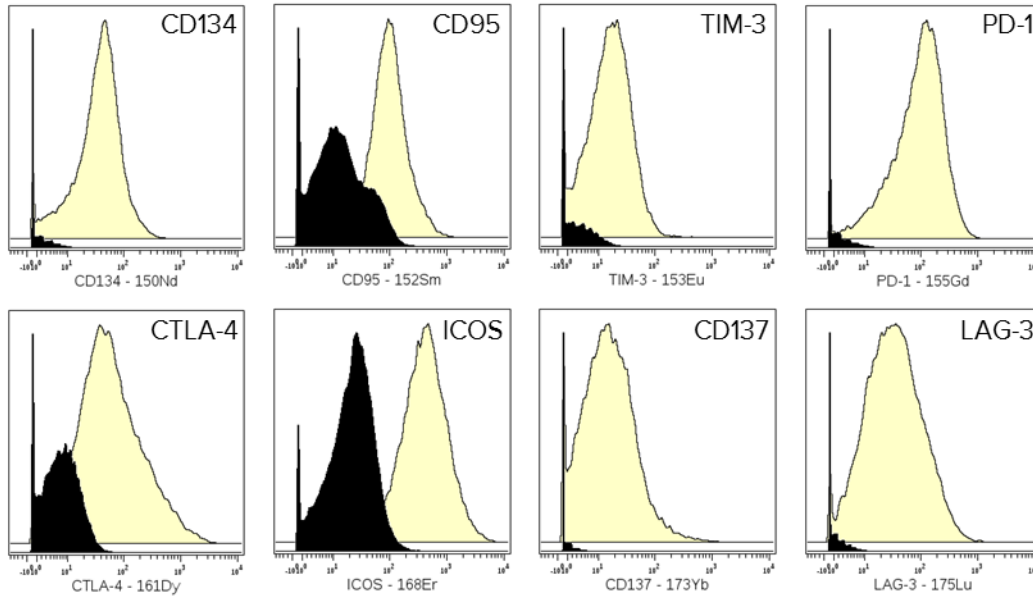
## Technical Information

**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<sup>®</sup> experiment, including buffers optimized for staining and a nucleic acid intercalator used for single-cell identification.

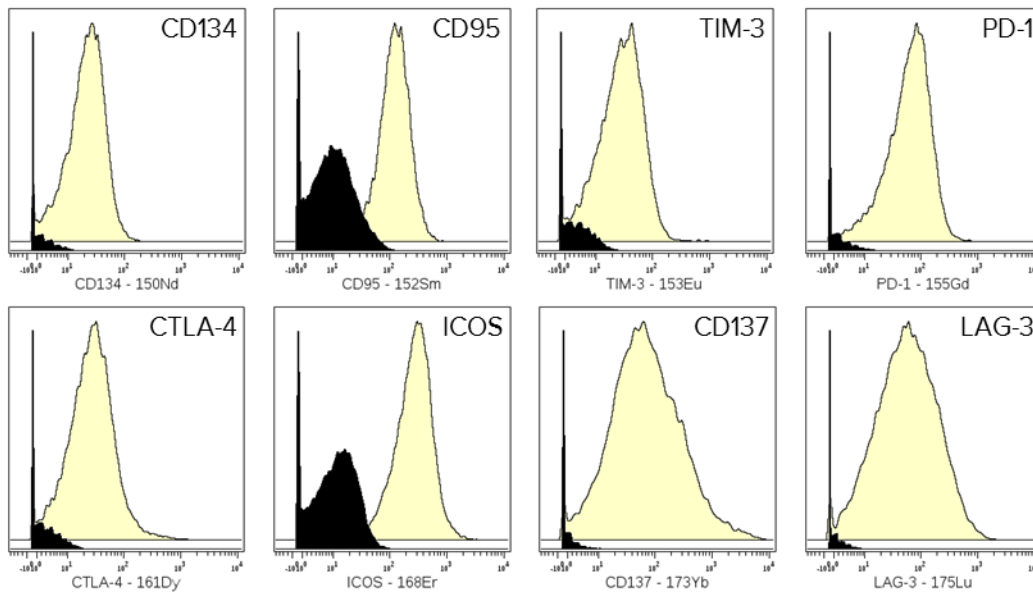
**Recommended usage:** For staining with the Maxpar Human T Cell Immuno-Oncology Expansion Panel Kit, prepare human whole blood or PBMCs using standard techniques and stain according to the [Maxpar Cytoplasmic/Secreted Antigen Staining Protocol](#). This protocol contains instructions for staining both 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](https://www.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](http://fluidigm.com/support).**

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