

# Maxpar Direct Expansion Panels

## For use with Maxpar Direct Immune Profiling Assay

**Catalog numbers:** 201402, 201403, 201404, 201405, 201406, 201407

**Package contents:** Each panel contains a collection of preselected Maxpar<sup>®</sup> antibodies\*, suitable for use with 1 Maxpar<sup>®</sup> Direct<sup>™</sup> Immune Profiling Assay<sup>™</sup> kit (Cat. No. 201325)

\* The antibodies are provided in individual tubes, not a pre-mixed cocktail. See tables for individual panel contents.

**Reactivity:** Human

**Formulation:** Antibody stabilizer with 0.05% sodium azide

**Storage:** Store at 2–8 °C. Do not freeze.

**Application:** CyTOF<sup>®</sup> suspension mass cytometry

## Technical Information

**Description:** Maxpar<sup>®</sup> Direct expansion panels are designed to complement the Maxpar Direct Immune Profiling Assay. Each panel consists of a collection of preselected antibodies that fit open channels of the assay with the aim to address deeper profiling of specific immune cell subsets.

**Recommended use:** We recommend titrating the antibodies for optimal performance for each of the desired applications. A suggested starting point is 3 µL of each antibody per Maxpar Direct Immune Profiling Assay test. Centrifuge the stock antibody at 12,000 × *g* for 5 min to sediment antibody aggregates.

**IMPORTANT** Contact Technical Support for more detailed guidance on recommended titration protocols and use of the Maxpar Direct<sup>™</sup> expansion panels before initiating experiments.

## Panel Contents

### Myeloid and B Cell Expansion Panel 1 (Cat. No. 201402)

Cat. No.	Maxpar Antibody
3142009B	Anti-Human CD181/CXCR1 (8F1/CXCR1)-142Nd—100 Tests
3159005B	Anti-Human CD22 (HIB22)-159Tb—100 Tests
3162010B	Anti-Human CD80/B7.1 (2D10.4)-162Dy—100 Tests
3165017B	Anti-Human CD163 (GHI/61)-165Ho—100 Tests
3169010B	Anti-Human CD33 (WM53)-169Tm—100 Tests
3175008B	Anti-Human CD279/PD-1 (EH12.2H7)-175Lu—100 Tests
3209003B	Anti-Human CD11b/Mac-1 (ICRF44)-209Bi—100 Tests

**Description:** Maxpar Direct Myeloid and B Cell Expansion Panel 1 enables deeper phenotyping of myeloid and B cell subsets in conjunction with the Maxpar Direct Immune Profiling Assay. This panel includes markers for monocytic myeloid-derived suppressor cells, B cell regulation and activation, and neutrophil activation and exhaustion.

### Myeloid and B Cell Expansion Panel 2 (Cat. No. 201403)

Cat. No.	Maxpar Antibody
3142010B	Anti-Human CD40 (5C3)-142Nd—100 Tests
3159005B	Anti-Human CD22 (HIB22)-159Tb—100 Tests
3162010B	Anti-Human CD80/B7.1 (2D10.4)-162Dy—100 Tests
3165017B	Anti-Human CD163 (GHI/61)-165Ho—100 Tests
3169004B	Anti-Human CD24 (ML5)-169Tm—100 Tests
3175008B	Anti-Human CD279/PD-1 (EH12.2H7)-175Lu—100 Tests
3209003B	Anti-Human CD11b/Mac-1 (ICRF44)-209Bi—100 Tests

**Description:** Maxpar Direct Myeloid and B Cell Expansion Panel 2 enables deeper phenotyping of B cell and myeloid cell subsets in conjunction with the Maxpar Direct Immune Profiling Assay. Additionally, the panel includes markers for transitional B cells and for monitoring B cell regulation and activation and exhaustion.

### NK Cell Expansion Panel 1 (Cat. No. 201404)

Cat. No.	Maxpar Antibody
3142009B	Anti-Human CD181/CXCR1 (8F1/CXCR1)-142Nd—100 Tests
3159017B	Anti-Human CD337/NKp30 (Z25)-159Tb—100 Tests
3162021B	Anti-Human CD335/NKp46 (BAB281)-162Dy—100 Tests
3165042B	Anti-Human CD279/PD-1 (EH12.2H7)-165Ho—100 Tests
3169013B	Anti-Human CD159a/NKG2A (Z199)-169Tm—100 Tests
3175039B	Anti-Human CD278/ICOS (C398.4A)-175Lu—100 Tests
3209013B	Anti-Human TIGIT (MBSA43)-209Bi—100 Tests

**Description:** Maxpar Direct NK Cell Expansion Panel 1 enables deeper phenotyping of NK cells in conjunction with the Maxpar Direct Immune Profiling Assay. This panel includes NK regulation and activation and exhaustion markers, which enable deeper profiling of NK subsets.

### T Cell Expansion Panel 1 (Cat. No. 201405)

Cat. No.	Maxpar Antibody
3159037B	Anti-Human CD366/Tim-3 (F38-2E2)-159Tb—100 Tests
3162001B	Anti-Human CD69 (FN50)-162Dy—100 Tests
3165037B	Anti-Human CD223/LAG-3 (11C3C65)-165Ho—100 Tests
3169013B	Anti-Human CD159a/NKG2A (Z199)-169Tm—100 Tests
3175008B	Anti-Human CD279/PD-1 (EH12.2H7)-175Lu—100 Tests
3209013B	Anti-Human TIGIT (MBSA43)-209Bi—100 Tests

**Description:** Maxpar Direct T Cell Expansion Panel 1 enables phenotyping of T cell and NK cell exhaustion in conjunction with the Maxpar Direct Immune Profiling Assay. Comprehensive investigation of T cell exhaustion is enabled by the inclusion of 5 inhibitory receptor markers, the collective expression of which may indicate increasingly diminished cellular functions.

**T Cell Expansion Panel 2 (Cat. No. 201406)**

Cat. No.	Maxpar Antibody (1 tube each)
3142006B	Anti-Human CD11a (HI111)-142Nd—100 Tests
3159037B	Anti-Human CD366/Tim-3 (F38-2E2)-159Tb—100 Tests
3162038B	Anti-Human CD95/Fas (DX2)-162Dy—100 Tests
3165042B	Anti-Human CD279/PD-1 (EH12.2H7)-165Ho—100 Tests
3169030B	Anti-Human CD278/ICOS (C398.4A)-169Tm—100 Tests
3175001B	Anti-Human CD184/CXCR4 (12G5)-175Lu—100 Tests
3209013B	Anti-Human TIGIT (MBSA43)-209Bi—100 Tests

**Description:** Maxpar Direct T Cell Expansion Panel 2 enables investigation of T cell migration, activation and exhaustion in conjunction with the Maxpar Direct Immune Profiling Assay. This panel also enables in-depth assessment of circulating T follicular helper cells and T stem cell memory subset.

**T Cell Expansion Panel 3 (Cat. No. 201407)**

Cat. No.	Maxpar Antibody (1 tube each)
3142018B	Anti-Human CD134/OX40 (ACT35)-142Nd—100 Tests
3159038B	Anti-Human TIGIT (MBSA43)-159Tb—100 Tests
3162001B	Anti-Human CD69 (FN50)-162Dy—100 Tests
3165042B	Anti-Human CD279/PD-1 (EH12.2H7)-165Ho—100 Tests
3169028B	Anti-Human CD366/Tim-3 (F38-2E2)-169Tm—100 Tests
3175039B	Anti-Human CD278/ICOS (C398.4A)-175Lu—100 Tests
3209015B	Anti-Human CD137/4-1BB (4B4-1)-209Bi—100 Tests

**Description:** Maxpar Direct T Cell Expansion Panel 3 enables phenotyping of T cell costimulation and exhaustion in conjunction with the Maxpar Direct Immune Profiling Assay. The panel may also be used to perform cytokine-independent activation-induced marker (AIM) assays to study antigen-specific T cell responses.

**Applicable Protocols**

Before using this product, refer to the instructions in the Method Develop: Customize the Maxpar Direct Immune Profiling Assay User Guide (FLDM-00151). For more information, see the Maxpar Direct Immune Profiling Assay Cell Staining and Data Acquisition User Guide (400286).

**Safety**

Use standard laboratory safety protocols. Read and understand the safety data sheets (SDSs) before handling chemicals. To obtain SDSs, go to [fluidigm.com](http://fluidigm.com) and search for **3000000X**.

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