Maxpar Signaling I Panel Kit, 7 Marker—25 Tests

Catalog: 201309
Package size: 25 tests

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

Contents:
Maxpar® Cell Staining Buffer (500 mL)
Maxpar Fix and Perm Buffer (25 mL)
Maxpar Fix I Buffer (50 mL)
Maxpar Water (500 mL)
Cell-ID™ Intercalator-Ir (125 µM; 25 µL)
Maxpar Metal-Conjugated Antibodies (see table for panel)*

* The antibodies are provided in individual tubes, not a premixed cocktail.

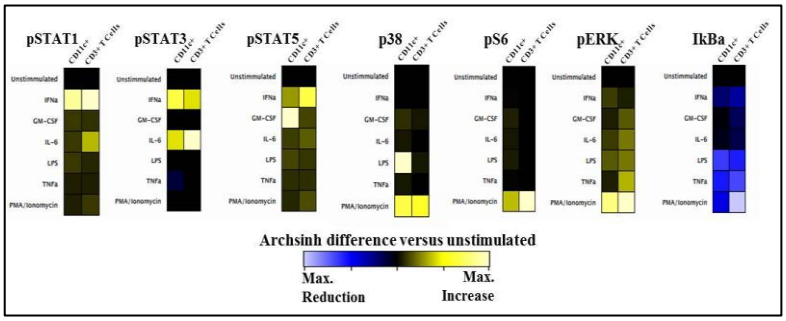
Target	Clone	Metal
pSTAT5	47	150Nd
pSTAT1	58D6	153Eu
p38	D3F9	156Gd
pSTAT3	4/P-Stat3	158Gd
Iκβα	L35A5	164Dy
pERK1/2	D13.14.4E	171Yb
pS6	N7-548	175Lu

Technical Information

Description: The Maxpar Signaling I Panel Kit is for quantification of basal and induced phosphorylation of multiple key signaling pathways: JAK/STAT, NFκB, and MAPK. This kit is designed to integrate with existing Maxpar panel kits to measure cell signaling in heterogeneous samples, such as blood or splenocytes. Alternatively, it may be used as a stand-alone panel when measuring homogeneous samples such as cell lines.

Recommended usage: To achieve best results with the Maxpar Signaling I Panel Kit, cells should be prepared and stained according to the Maxpar Phosphoprotein Staining Protocol. The kit contains buffers optimized for staining and a nucleic acid intercalator used for single-cell identification. Additional materials and equipment may be required for cell staining and acquisition. Please refer to Maxpar Phosphoprotein Staining Protocol. 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, Fluidigm Basic Human PBMC Panel, is available for reference at Premium.Cytobank.org. (Results will vary due to donor and staining condition differences.)



PBMC were incubated for 15 minutes in media alone (top row) or with IFNα, GM-CSF, IL-6, LPS, TNFα, and PMA + ionomycin (rows 2 through 6, respectively). Stimulated cells were fixed with paraformaldehyde, permeabilized with methanol, and stained with the Maxpar Signaling I Panel Kit according to the Maxpar Phosphoprotein Staining Protocol. The heat map indicates the induction or reduction of each phosphoepitope (calculated as arcsinh difference of the 95th percentile). Each heat map was individually scaled. To illustrate cell-specific signaling patterns, monocytes (CD11c+) and T cells (CD3+) are displayed in the analysis.

For technical support visit http://techsupport.fluidigm.com. For general support visit http://www.fluidigm.com/support.