Maxpar Cell Cycle Panel Kit, 5 Marker—25 Tests

Catalog: 201313
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 Water (500 mL)
- Maxpar Fix I Buffer (5X; 50 mL)
- Cell-ID™ IdU (100 µL)
- 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.

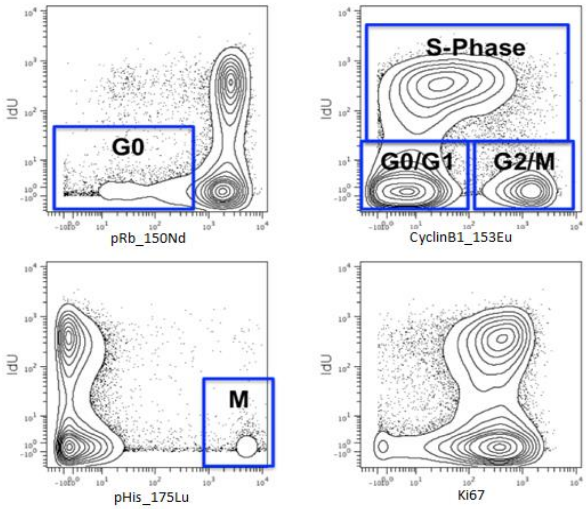
Target	Clone	Metal
S-Phase (IdU)	N/A	127I
pRb [Ser807/811]	J112-906	150Nd
CyclinB1	GNS-1	153Eu
Ki-67	B56	162Dy
pHistone H3 [Ser28]	HTA28	175Lu

Technical Information

Description: The Maxpar Cell Cycle Panel Kit is for assessment of cell cycle status: proliferation, G0 (senescent), G1, S-Phase, G2, and M-phase (Mitosis). This kit is designed to integrate with existing Maxpar panel kits to measure cell status in heterogeneous samples, such as blood or splenocytes. Alternatively, it may be used as a standalone panel when measuring homogeneous samples such as cell lines.

Recommended usage: To achieve best results with the Maxpar Cell Cycle 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.)



Jurkat cells were incubated for 30 minutes in media containing 50 µM IdU. Cells were fixed with paraformaldehyde, permeabilized with methanol, and stained with the Maxpar Cell Cycle Panel Kit according to the Maxpar Phosphoprotein Staining Protocol. Identifiable phases of the cell are indicated. Gating strategy is fully described in Behbehani et al. *Cytometry A*. 2012.

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