



Maxpar Human Immuno-Oncology IMC Panel Kits

Catalog numbers: 201508 (201503, 201506, 201507)

Storage:

- Antibodies: 2–8 °C. Do not freeze.
- Cell-ID™ Intercalator-Ir: Upon receiving this product, divide it into aliquots and freeze them at –20 °C. Frozen aliquots should be used only once after thawing.

Application: IMC™ FFPE

Contents:

- Cell-ID Intercalator-Ir—125 µM
- Maxpar® antibodies*, 25 µg, 0.5 mg/mL (See table for panel.)

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

Technical Information

Description: Maxpar Human Immuno-Oncology (IO) Panel Kits are optimized for use in formalin-fixed, paraffin-embedded (FFPE) tissue sections using Imaging Mass Cytometry™ (IMC).

Combination IO panel kit (includes all 3 individual panel kits):

The Maxpar Human Immuno-Oncology IMC Panel Kit (201508) enables interrogation of the tumor microenvironment including activated tumor-infiltrating lymphocytes in FFPE tissue sections using 18-plex IMC. This panel kit includes 17 pathologist-verified antibodies and a nucleic acid stain. The kit consists of 3 modular subpanels: Maxpar Human Tumor-Infiltrating Lymphocytes IMC Panel Kit (201506), Maxpar Human Immune Activation IMC Panel Kit (201503), and Maxpar Human Tissue Architecture IMC Panel Kit (201507).

Individual panel kits (modular, can mix and match):

- The Human Tissue Architecture IMC Panel Kit (201507) enables 6-plex staining of tissue architecture, including stroma, epithelial tissue, and vasculature. This panel kit includes 5 pathologist-verified antibodies and a nucleic acid stain.
- The Human Tumor-Infiltrating Lymphocytes IMC Panel Kit (201506) enables 9-plex staining of epithelial cells; phenotyping of T cells (helper, cytotoxic, memory, and regulatory), B cells, and monocytes/macrophages; and identification of potential CD68+ tumor cells. This panel kit includes 8 pathologist-verified antibodies and a nucleic acid stain.
- The Human Immune Activation IMC Panel Kit (201503) enables 5-plex phenotyping of activated immune cells, including T cells, B cells, NK cells, and/or myeloid cells. This panel kit includes 4 pathologist-verified antibodies and a nucleic acid stain.

Panel Kit	Target	Clone	Metal	Dilution†	
Maxpar Human Immuno-Oncology IMC Panel Kit (201508)	Maxpar Human Tissue Architecture IMC Panel Kit (201507)	Alpha-smooth muscle actin	1A4	141Pr	1:100–400
		Collagen type I	Polyclonal	169Tm	1:150–600
		E-cadherin	24E10	158Gd	1:25–400
		Histone H3	D1H2	176Yb	1:50–600
		Vimentin	D21H3	143Nd	1:50–300
	Maxpar Human Tumor-Infiltrating Lymphocytes IMC Panel Kit (201506)	CD20	H1	161Dy	1:200–800
		CD3	Polyclonal, C-terminal	170Er	1:50–200
		CD4	EPR6855	156Gd	1:50–400
		CD45RO	UCHL1	173Yb	1:25–400
		CD68	KP1	159Tb	1:25–600
		CD8a	C8/144B	162Dy	1:50–200
		FoxP3	PCH101	155Gd	1:50–300
		Pan-keratin	C11	148Nd	1:50–200
	Maxpar Human Immune Activation IMC Panel Kit (201503)	Granzyme B	EPR20129-217	167Er	1:50–200
		Ki-67	B56	168Er	1:25–100
		PD-1	EPR4877(2)	165Ho	1:25–100
		PD-L1	SP142	150Nd	1:50–200
Nucleic acid for all panel kits	Cell-ID Intercalator-Ir	—	191Ir/ 193Ir	1:400– 2,000	

† Suggested initial dilution range. For optimal performance, it is recommended that the antibody be titrated for the desired application.

Technical Information *(continued)*

Recommended use: For staining with the Maxpar Human Immuno-Oncology IMC Panel Kits, prepare human FFPE tissue using standard techniques according to the Imaging Mass Cytometry Staining Protocol for FFPE Sections (400322). Additional materials and equipment may be required for tissue staining and acquisition.

Important product notes: Cell-ID Intercalator-Ir—125 μ M is a highly concentrated metal intercalator solution. It must be diluted in accordance with the recommended protocol.

Safety

Use standard laboratory safety protocols. Read and understand the safety data sheets (SDSs) before handling chemicals. To obtain SDSs, go to store.standardbio.com and search using either the product name or the catalog number.

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