Anti-Human CD279/PD-1-174Yb

Catalog: 3174020B
Clone: EH12.2H7
Package size: 100 tests
Isotype: Mouse IgG1
Storage: Store product at 4 °C. Do not freeze.
Cross-reactivity: Cynomolgus Monkey, Rhesus, Chimpanzee, Squirrel Monkey, Marmoset
Formulation: Antibody stabilizer with 0.05% sodium azide

Technical Information

Validation: Each lot of conjugated antibody is quality control-tested by CyTOF® analysis of stained cells using the appropriate positive and negative cell staining and/or activation controls.

Recommended usage: The suggested use is 1 µL for up to 3 x 10^6 live cells in 100 µL. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.

Human PBMCs were incubated for 3 days in media alone (left) or with PHA (right) and then cells were stained with 170Er-anti-CD3 (UCHT1) and 174Yb-anti-CD279/PD-1 (EH12.2H7). CD45+ CD14- cells are displayed in the analysis.

Description

Programmed death-1 (PD-1), also known as CD279, is a 55 kDa member of the CD28 immunoglobulin superfamily expressed on activated T cells, B cells, dendritic cells and macrophages. Engagement of PD-1 inhibits function in these immune cell subsets. PD-1 has two known counter-receptors or ligands, B7-H1 (CD274, PD-L1) and B7-DC (CD273, PD-L2). PD-1 contains the immunoreceptor tyrosine-based inhibitory motif (ITIM) in its cytoplasmic domain. The PD-1/B7-H1 pathway has emerged as playing a pivotal role in the negative regulation of T cell activity, including suppression of immune responses against cancer.

References


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