

# Anti-Human CD279/PD-1-175Lu

Catalog: 3175008B

Package size: 100 tests

Storage: Store at 4 °C. Do not freeze.

Cross-reactivity: Cynomolgus Monkey, Rhesus, Chimpanzee, Squirrel Monkey, Marmoset

Clone: EH12.2H7

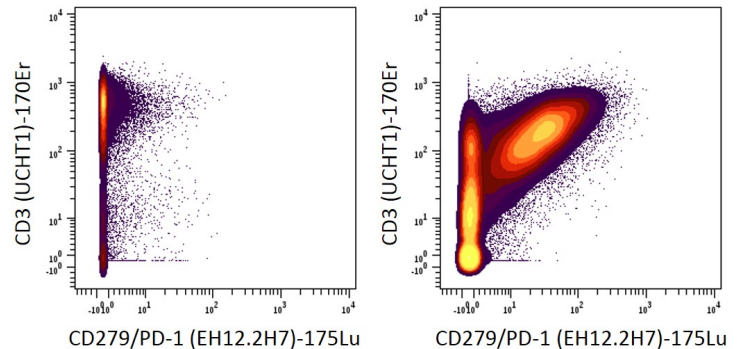
Isotype: Mouse IgG1

Formulation: Antibody stabilizer with 0.05% sodium azide

## Technical Information

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

**Recommended usage:** The suggested use is 1  $\mu$ L for up to  $3 \times 10^6$  live cells in 100  $\mu$ L. 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). The cells were then stained with 170Er-anti-CD3 (UCHT1) and 175Lu-anti-CD279/PD-1 (EH12.2H7). Viable lymphocytes 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

Bandura, D.R. et al. "Mass cytometry: technique for real time single cell multitarget immunoassay based on inductively coupled plasma time-of-flight mass spectrometry." *Analytical Chemistry* 81 (2009): 6,813–22.

Ornatsky, O.I. et al. "Highly multiparametric analysis by mass cytometry." *Journal of Immunological Methods* 361 (2010): 1–20.

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