

Anti-Human CD279/PD-1-155Gd

Catalog: 3155009B

Package size: 100 tests

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

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

Clone: EH12.2H7

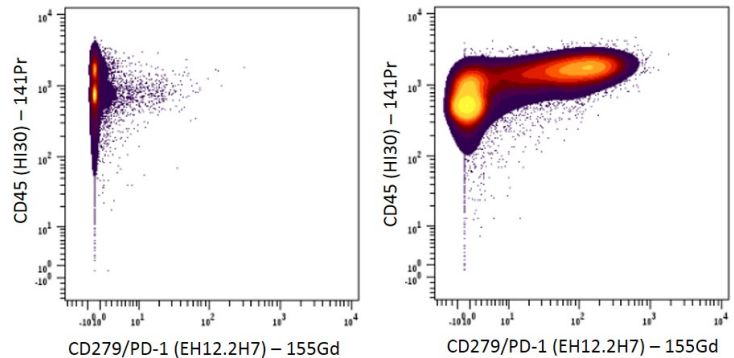
Isotype: Mouse IgG1

Formulation: Antibody stabilizer with 0.05% sodium azide

Technical Information

Validation: Each lot of conjugated antibody is quality control-tested by CyTOF[®] 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 3×10^6 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 three days in media alone (left) or with PHA (right). The cells were then stained with 141Pr-anti-CD45 (HI30) and 155Gd-anti-CD279/PD-1 (EH12.2H7). Total viable 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

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.

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

For Research Use Only. Not for use in diagnostic procedures.

This product contains antibodies manufactured by and sold under license from BioLegend[®] and licensees thereof. Information in this publication is subject to change without notice. **Safety data sheet information:** www.fluidigm.com/sds. **Patent and license information:** www.fluidigm.com/legalnotices. **EU's WEEE directive information:** www.fluidigm.com/compliance. Fluidigm, the Fluidigm logo, and CyTOF are trademarks or registered trademarks of Fluidigm Corporation in the United States and/or other countries. © 2017 Fluidigm Corporation. All rights reserved. 05/2017