

For Research Use Only

# Anti-Human PD-1/CD279 (EH12.2H7)

Catalog Number: 65168-1-Ig



## Basic Information

Catalog Number:

65168-1-Ig

Size:

100ug, 0.5 mg/ml

Source:

Mouse

Isotype:

IgG1, kappa

GenBank Accession Number:

BC074740

GeneID (NCBI):

5133

UNIPROT ID:

Q15116

Full Name:

programmed cell death 1

Calculated MW:

288 aa, 32 kDa

Purification Method:

Purified by protein-A affinity chromatography

CloneNo.:

EH12.2H7

Recommended Dilutions:

FC: 0.2 ug per 10<sup>6</sup> cells in 100 µl suspension

## Applications

Tested Applications:

FC

Species Specificity:

Non-human primates, Human

Positive Controls:

FC : PHA treated human PBMCs,

## Background Information

Programmed cell death 1 (PD-1, also known as CD279) is an immunoinhibitory receptor that belongs to the CD28/CTLA-4 subfamily of the Ig superfamily. It is a 288 amino acid (aa) type I transmembrane protein composed of one Ig superfamily domain, a stalk, a transmembrane domain, and an intracellular domain containing an immunoreceptor tyrosine-based inhibitory motif (ITIM) as well as an immunoreceptor tyrosine-based switch motif (ITSM) (PMID: 18173375). PD-1 is expressed during thymic development and is induced in a variety of hematopoietic cells in the periphery by antigen receptor signaling and cytokines (PMID: 20636820). Engagement of PD-1 by its ligands PD-L1 or PD-L2 transduces a signal that inhibits T-cell proliferation, cytokine production, and cytolytic function (PMID: 19426218). It is critical for the regulation of T cell function during immunity and tolerance. Blockade of PD-1 can overcome immune resistance and also has been shown to have antitumor activity (PMID: 22658127; 23169436).

## Storage

Storage:

Store at 2-8°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.09% sodium azide, pH7.3

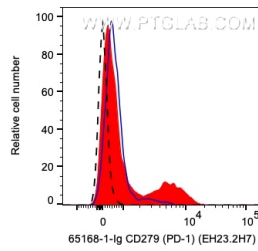
For technical support and original validation data for this product please contact:

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## Selected Validation Data



$1 \times 10^6$  day 3 PHA treated human PBMCs were surface stained with 0.2  $\mu$ g Anti-Human PD-1/CD279 (65168-1-Ig, Clone:EH12.2H7) and CL594-Goat anti-Mouse IgG at dilution 1:1000. Cells were not fixed. Lymphocytes were gated. Blue line indicates unstained stimulated cells. Black dashed line indicates unstimulated stained cells.