

For Research Use Only

# FcZero-rAb® Biotin Anti-Human PD-1/CD279 (EH12.2H7) Rabbit Recombinant Antibody

Catalog Number: Biotin-FcA65586



## Basic Information

Catalog Number:

Biotin-FcA65586

Concentration:

100ug, 500 ug/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC074740

GeneID (NCBI):

5133

UNIPROT ID:

Q15116

Full Name:

programmed cell death 1

Calculated MW:

288 aa, 32 kDa

Purification Method:

Protein A purification

CloneNo.:

EH12.2H7

Recommended Dilutions:

FC: 0.25 ug per 10<sup>6</sup> cells in a 100 µl suspension

## Applications

Tested Applications:

FC

Species Specificity:

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. Avoid exposure to light. 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:

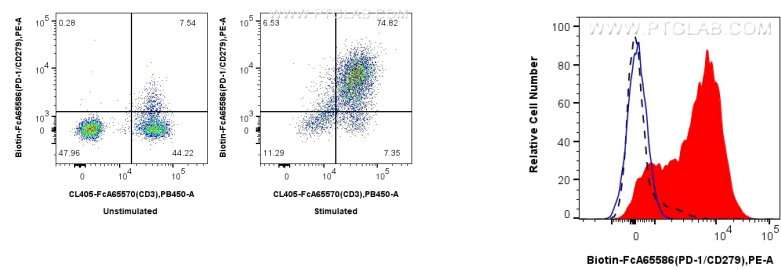
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



1x10<sup>6</sup> untreated (left) or PHA-treated (right) human PBMCs were surface stained with 0.25 ug Biotin Anti-Human PD-1/CD279 (EH12.2H7) Rabbit RecAb (Biotin-FcA65586, Clone: EH12.2H7) and Streptavidin-PE Conjugate (PE-PF00030). Cells were co-stained with FcZero-rAb® CoraLite® Plus 405 Anti-Human CD3 (UCHT1). Cells were not fixed.

1x10<sup>6</sup> PHA-treated human PBMCs were surface stained with 0.25 ug Biotin Anti-Human PD-1/CD279 (EH12.2H7) Rabbit RecAb (Biotin-FcA65586, Clone: EH12.2H7) (red) or FcZero-rAb® Biotin Rabbit IgG Isotype Control Recombinant Antibody (Biotin-FcA98136, Clone: 240953C9) (blue). 1x10<sup>6</sup> untreated human PBMCs were surface stained with 0.25 ug Biotin Anti-Human PD-1/CD279 (EH12.2H7) Rabbit RecAb (Biotin-FcA65586, Clone: EH12.2H7)

