

For Research Use Only

# FcZero-rAb® Biotin Anti-Mouse PD-1/CD279 (RMP1-30) Rabbit Recombinant Antibody

Catalog Number: Biotin-FcA65665



## Basic Information

Catalog Number:

Biotin-FcA65665

Concentration:

100ug, 500 ug/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC119179

GeneID (NCBI):

18566

UNIPROT ID:

Q02242

Full Name:

programmed cell death 1

Purification Method:

Protein A purification

CloneNo.:

RMP1-30

Recommended Dilutions:

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

Excitation/Emission maxima wavelengths:

-

## Applications

Tested Applications:

FC, ELISA

Species Specificity:

mouse

Positive Controls:

FC : anti-CD3/CD28 treated mouse splenocytes,

## 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:

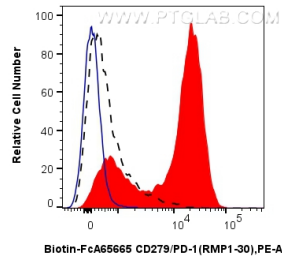
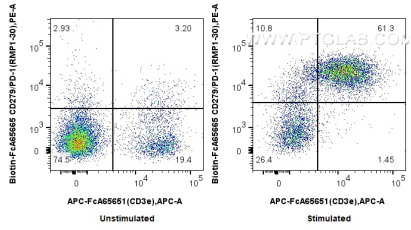
T: 4006900926

E: Proteintech-CN@ptglab.com

W: ptgcn.com

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## Selected Validation Data



1x10<sup>6</sup> untreated or anti-CD3/CD28 treated mouse splenocytes were surface stained with APC Anti-Mouse CD3e and 0.25 ug Biotin Anti-Mouse CD279/PD-1 (RMP1-30) Rabbit IgG RecAb (Biotin-FcA65665, Clone: RMP1-30) and Streptavidin-PE Conjugate (PE-PF00030). Cells were not fixed.

1x10<sup>6</sup> anti-CD3/CD28 treated mouse splenocytes were surface stained with 0.25 ug Biotin Anti-Mouse CD279/PD-1 (RMP1-30) Rabbit IgG RecAb (Biotin-FcA65665, Clone: RMP1-30)(red) or FcZero-rAb™ Biotin Rabbit IgG Isotype Control Recombinant Antibody (Biotin-FcA98136, Clone: 240953C9) (blue) and Streptavidin-PE Conjugate (PE-PF00030). 1x10<sup>6</sup> untreated mouse splenocytes were surface stained with 0.25 ug Biotin Anti-Mouse CD279/PD-1 (RMP1-30) Rabbit IgG RecAb