

For Research Use Only

# APC Anti-Mouse PD-1/CD279 (RMP1-30)

Catalog Number: APC-65142

2 Publications



## Basic Information

Catalog Number:

APC-65142

Size:

100ug, 0.2 mg/ml

Source:

Rat

Isotype:

IgG2b, kappa

GenBank Accession Number:

BC119179

GeneID (NCBI):

18566

UNIPROT ID:

Q02242

Full Name:

programmed cell death 1

Purification Method:

Affinity purification

CloneNo.:

RMP1-30

Recommended Dilutions:

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

Excitation/Emission maxima wavelengths:

650 nm / 660 nm

## Applications

Tested Applications:

FC

Cited Applications:

FC

Species Specificity:

mouse

Cited Species:

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).

## Notable Publications

Author	Pubmed ID	Journal	Application
Qing Zhang	35765095	Stem Cell Res Ther	FC
Zhenzhen Xun	38956900	Adv Sci (Weinh)	FC

## 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 and 0.5% BSA, pH7.3

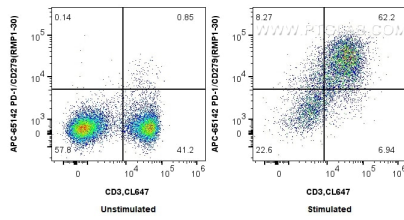
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## Selected Validation Data



1x10<sup>6</sup> untreated or anti-CD3/CD28 treated (2 days) mouse splenocytes were surface stained with 0.2 ug APC Anti-Mouse PD-1/CD279 (RMP1-30) (APC-65142, Clone: RMP1-30) and 0.2 ug APC Rat IgG2b Isotype Control (LTF-2) (APC-65211, Clone: LTF-2). Cells were not fixed.