

For Research Use Only

FcZero-rAb® PerCP-Cyanine5.5 Anti-Mouse PD-1/CD279 (RMP1-30) Rabbit Recombinant Antibody

Catalog Number:CPY5-FcA65665



Basic Information

Catalog Number:

CPY5-FcA65665

Concentration:

100ug, 200 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 10⁶ cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:

482 nm / 690nm

Applications

Tested Applications:

FC

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 and 0.5% BSA, pH7.3

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

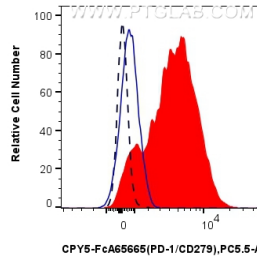
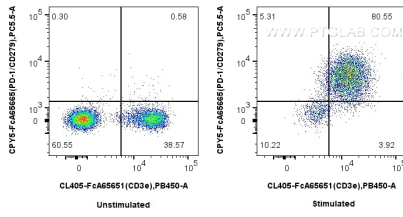
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Selected Validation Data



1×10^6 untreated (left) or anti-CD3/CD28 treated (right) mouse splenocytes were surface stained with FcZero-rAb® CoraLite® Plus 405 Anti-Mouse CD3e (145-2C11) and 0.25 ug PerCP-Cyanine5.5 Anti-Mouse PD-1/CD279 (RMP1-30) Rabbit RecAb (CPY5-FcA65665, Clone: RMP1-30). Cells were incubated with MonoZero™ Monocytes blocking Reagent (PF00020) prior to staining. Cells were not fixed.

1×10^6 anti-CD3/CD28 treated mouse splenocytes were surface stained with 0.25 ug PerCP-Cyanine5.5 Anti-Mouse PD-1/CD279 (RMP1-30) Rabbit RecAb (CPY5-FcA65665, Clone: RMP1-30)(red) or FcZero-rAb® PerCP-Cyanine5.5 Rabbit IgG Isotype Control Recombinant Antibody (CPY5-FcA98136, Clone: 240953C9) (blue). 1×10^6 untreated mouse splenocytes were surface stained with 0.25 ug PerCP-Cyanine5.5 Anti-Mouse PD-1/CD279 (RMP1-30) Rabbit RecAb (CPY5-

