

For Research Use Only

CoraLux Violet 510 Anti-Mouse PD-1/CD279 (RMP1-14) Mouse IgG2a Recombinant Antibody

Catalog Number: CLV510-65684-2



Basic Information

Catalog Number:

CLV510-65684-2

Size:

100ug, 500 ug/ml

Source:

Mouse

Isotype:

IgG2a

GenBank Accession Number:

BC119179

GeneID (NCBI):

18566

Full Name:

programmed cell death 1

Purification Method:

Protein A purification

CloneNo.:

RMP1-14

Recommended Dilutions:

FC: 0.5 ug per 10⁶ cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:

408 nm / 496 nm

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). RMP1-14 is a monoclonal antibody that targets the murine PD-1 protein and can be used in mouse models to block the reaction between PD-1 and PD-L1/PD-L2 (PMID: 14764726; 31832706).

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

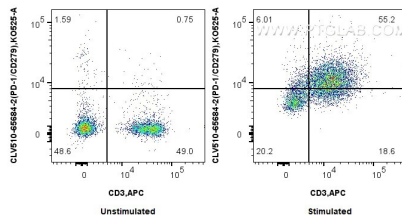
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com
W: ptglab.com

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

Selected Validation Data



1x10⁶ untreated (left) or anti-CD3/CD28 treated (right) mouse splenocytes were surface stained with APC Anti-Mouse CD3 and 0.5 ug CoraLux Violet 510 Anti-Mouse PD-1/CD279 (RMP1-14) Mouse IgG2a RecAb (CLV510-65684-2, Clone: RMP1-14). Cells were not fixed.