For Research Use Only

PE Anti-Mouse CD279 (PD-1) (RMP1-30)

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Antibodies | ELISA kits | Proteins
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Catalog Number:PE-65142

Basic Information

Catalog Number:
PE-65142

Size:
100ug , 0.2 mg/ml

Source:
Rat

Isotype:
IgG2b

GenBank Accession Number:
BC119179

GeneID (NCBI):
18566

Full Name:
programmed cell death 1

Purification Method:
Affinity purification

CloneNo.:
RMP1-30

Excitation/Emission maxima wavelengths:
496 nm, 565 nm / 578 nm

Applications

Tested Applications:
FC

Species Specificity:
Mouse

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:
Phosphate based buffer with 0.09% sodium azide and 0.1% gelatin, pH 7.2.

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)
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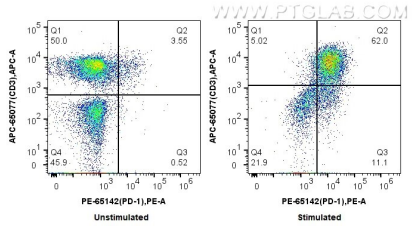
Selected Validation Data



1X10^6 untreated or anti-CD3 (clone: 145-2C11) treated mouse splenocytes were surface stained with APC-anti-mouse CD3 (APC-65077, clone 17A2) and 0.25 ug PE Anti-Mouse CD279 (PD-1) (PE-65142, Clone: RMP1-30). Cells were not fixed.