For Research Use Only

Anti-Human PD-1/CD279 (J110)

Catalog Number:65119-1-Ig

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
65119-1-Ig

Size:
100ug , 500 µg/ml

Source:
Mouse

Isotype:
IgG1

GenBank Accession Number:
BC074740

GeneID (NCBI):
5133

Full Name:
programmed cell death 1

Calculated MW:
288 aa, 32 kDa

Purification Method:
Affinity purification

CloneNo.:
J110

Applications

Tested Applications:
FC

Species Specificity:
Human

Background Information

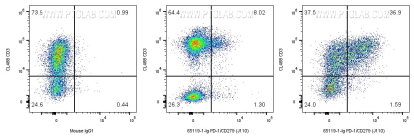
Programmed cell death 1 (PD-1, also known as CD279) is an immunoinhibitory receptor that belongs to the CD28/CTLA-4 subfamily of the Ig superfamily. It is a 288 amino acid (aa) type I transmembrane protein composed of one Ig superfamily domain, a stalk, a transmembrane domain, and an intracellular domain 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

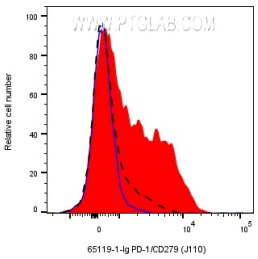
Storage:
Store at 2-8°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.09% sodium azide.

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

Selected Validation Data



1x10^6 PHA treated (3 day) human PBMCs were surface stained with 0.2 ug Anti-Human PD-1/CD279 (65119-1-Ig, Clone:J110) (right) or Mouse IgG1 Isotype Control (left). 1x10^6 untreated human PBMCs were surface stained with 0.2 ug Anti-Human PD-1/CD279 (65119-1-Ig, Clone:J110) (center). All cells were then stained with CoraLite®647-conjugated AffiniPure F(ab')2 Fragment Donkey Anti-Mouse IgG (H+L) (SA00014-8) followed by staining with CL488 Anti-Human CD3. Cells



1x10^6 PHA treated (3 day) human PBMCs were surface stained with 0.2 ug Anti-Human PD-1/CD279 (65119-1-Ig, Clone:J110) (red) or Mouse IgG1 Isotype Control (blue). 1x10^6 untreated human PBMCs were surface stained with 0.2 ug Anti-Human PD-1/CD279 (65119-1-Ig, Clone:J110) (black dashed). All cells were then stained with CoraLite®647-conjugated AffiniPure F(ab')2 Fragment Donkey Anti-Mouse IgG (H+L) (SA00014-8). Cells were not fixed. Lymphocytes were