

For Research Use Only

Anti-Mouse PD-1/CD279 Rabbit Recombinant Antibody

Catalog Number: 98080-1-RR



Basic Information

Catalog Number: 98080-1-RR	GenBank Accession Number: NM_008798.2	Purification Method: Protein A purification
Size: 100ug, 1000 ug/ml	GeneID (NCBI): 18566	CloneNo.: 240389B8
Source: Rabbit	UNIPROT ID: Q02242	
Isotype: IgG	Full Name: programmed cell death 1	
	Calculated MW: 32 kDa	

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. Stable for one year after shipment.

Storage Buffer:
PBS with 0.09% sodium azide, pH 7.3.

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

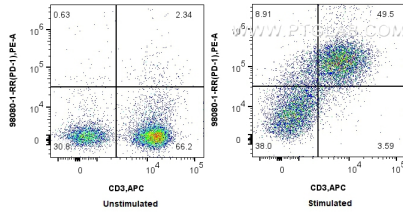
T: 4006900926

E: Proteintech-CN@ptglab.com

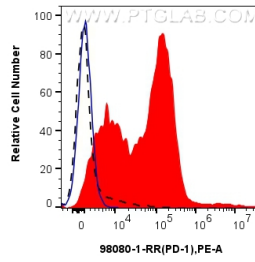
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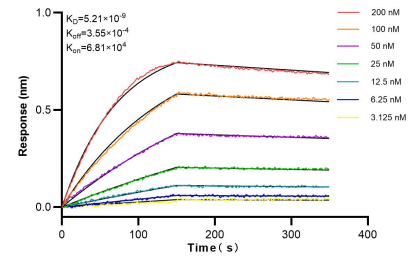
Selected Validation Data



1×10^6 untreated or anti-CD3/CD28 treated mouse splenocytes were surface stained with 0.25 ug Anti-Mouse PD-1/CD279 Rabbit Recombinant Antibody (98080-1-RR, Clone:240389B8) and PE-conjugated Goat Anti-Rabbit IgG. Cell were then stained with APC Anti-Mouse CD3. Cell were not fixed.



1×10^6 anti-CD3/CD28 treated mouse splenocytes were surface stained with 0.25 ug Anti-Mouse PD-1/CD279 Rabbit Recombinant Antibody (98080-1-RR, Clone:240389B8) (red) or Isotype Control (blue) and PE-conjugated Goat Anti-Rabbit IgG. 1×10^6 untreated mouse splenocytes were surface stained with 0.25 ug Anti-Mouse PD-1 Rabbit Recombinant Antibody (98080-1-RR, Clone:240389B8) (black). Cells were not fixed.



Bioluminescence resonance energy transfer (BLI) kinetic assays of 98080-1-RR against Mouse PD-1/CD279 were performed. The affinity constant is 5.21 nM.