

For Research Use Only

Anti-Human PD-1/CD279 Rabbit Recombinant Antibody, PBS Only

Catalog Number: 98068-1-PBS



Basic Information

Catalog Number: 98068-1-PBS	GenBank Accession Number: BC074740	Purification Method: Protein A purification
Size: 1mg, 2mg/ml	GeneID (NCBI): 5133	CloneNo.: 240724G11
Source: Rabbit	UNIPROT ID: Q15116	
Isotype: IgG	Full Name: programmed cell death 1	
	Calculated MW: 288 aa, 32 kDa	

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). It has been reported that PD-1 is heavily glycosylated and migrates with an apparent molecular mass of 47-55 kDa on SDS-PAGE, which is larger than its predicted mass of 32 kDa (PMID: 8671665; 17640856; 17003438).

Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS Only

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

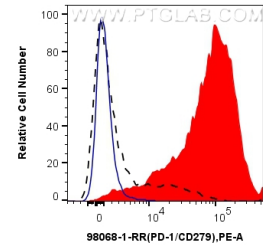
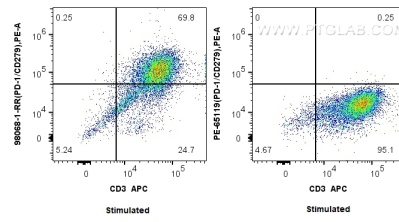
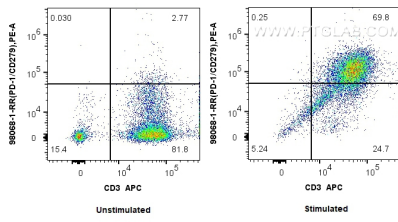
T: 4006900926

E: Proteintech-CN@ptglab.com

W: ptgcn.com

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

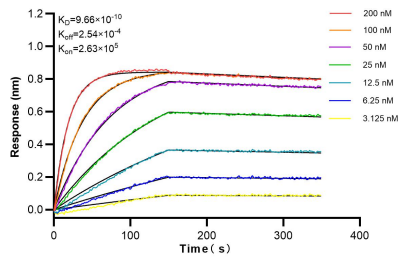
Selected Validation Data



1x10⁶ unstimulated or PHA stimulated human PBMCs were stained with 0.25 ug Anti-Human PD-1/CD279 Rabbit Recombinant Antibody (98068-1-RR, Clone:240724G11) and PE-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). Cells were then stained with APC Anti-Human CD3 (OKT3) Mouse IgG2a Recombinant Antibody (APC-65569, Clone: OKT3). Cells were not fixed. This data was developed using the same antibody clone with 98068-1-PBS in a different storage buffer

1x10⁶ PHA stimulated human PBMCs were stained with 0.25 ug Anti-Human PD-1/CD279 Rabbit Recombinant Antibody (98068-1-RR, Clone:240724G11)(left) or 0.25 ug PE Anti-Human PD-1/CD279 (J110) (PE-65119, Clone: J110)(right) and PE-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). Cells were then stained with APC Anti-Human CD3 (OKT3) Mouse IgG2a Recombinant Antibody (APC-65569, Clone: OKT3). Cells were not fixed. This data was developed using the same

1x10⁶ unstimulated (black) or PHA stimulated human PBMCs (red) were stained with 0.25 ug Anti-Human PD-1/CD279 Rabbit Recombinant Antibody (98068-1-RR, Clone:240724G11) and PE-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). 1x10⁶ PHA treated human PBMCs were stained with Isotype Control(blue). Cells were not fixed. This data was developed using the same antibody clone with 98068-1-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 98068-1-RR against Human PD-1/CD279 were performed. The affinity constant is 0.966 nM.