

For Research Use Only

FITC Plus Anti-Mouse PD-1/CD279 Rabbit Recombinant Antibody

Catalog Number: FITC-98080



Basic Information

Catalog Number: FITC-98080	GenBank Accession Number: NM_008798.2	Purification Method: Protein A purification
Size: 100ug , 500 µg/ml	GeneID (NCBI): 18566	CloneNo.: 240389B8
Source: Rabbit	UNIPROT ID: Q02242	Excitation/Emission maxima wavelengths: 495 nm / 524 nm
Isotype: IgG	Full Name: programmed cell death 1	
Immunogen Catalog Number: EG0918	Calculated MW: 32 kDa	

Applications

Tested Applications: FC	Positive Controls: FC : anti-CD3/CD28 treated mouse splenocytes,
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).

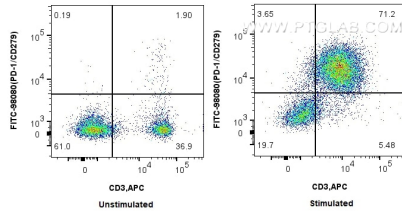
Storage

Storage:
Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3

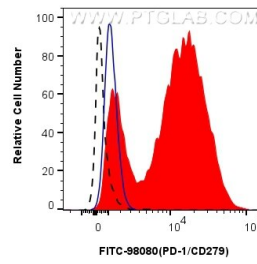
For technical support and original validation data for this product please contact:
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Selected Validation Data



1x10⁶ untreated or anti-CD3/CD28 treated mouse splenocytes were surface stained with APC Anti-Mouse CD3 and 0.25 ug FITC Plus Anti-Mouse PD-1/CD279 Rabbit RecAb (FITC-98080, Clone: 240389B8). Cells were not fixed.



1x10⁶ anti-CD3/CD28 treated mouse splenocytes were surface stained with 0.25 ug FITC Plus Anti-Mouse PD-1/CD279 Rabbit RecAb (FITC-98080, Clone: 240389B8) (red) or FITC Plus Rabbit IgG Isotype Control RecAb (FITC-98136, Clone: 240953C9) (blue). 1x10⁶ untreated mouse splenocytes were surface stained with 0.25 ug FITC Plus Anti-Mouse PD-1/CD279 Rabbit RecAb (FITC-98080, Clone: 240389B8) (black, dashed). Cells were not fixed.