

For Research Use Only

Biotin Anti-Human PD-1/CD279 (EH12.2H7) Mouse IgG2a Recombinant Antibody

Catalog Number: Biotin-65586



Basic Information

Catalog Number: Biotin-65586	GenBank Accession Number: BC074740	Purification Method: Protein A purification
Size: 100ug , 500 ug/ml	GeneID (NCBI): 5133	CloneNo.: EH12.2H7
Source: Mouse	Full Name: programmed cell death 1	
Isotype: IgG2a	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).

Storage

Storage:
Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:
PBS with 0.09% sodium azide.

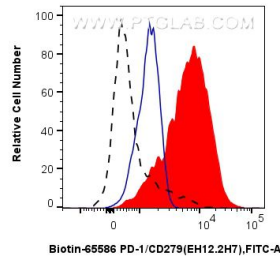
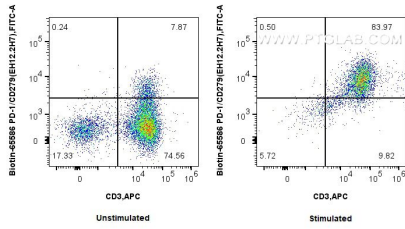
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Selected Validation Data



1×10^6 untreated or PHA-treated human PBMCs were surface stained with 5 ul Biotin Anti-Human PD-1/CD279 (EH12.2H7) Mouse IgG2a RecAb (Biotin-65586, Clone: EH12.2H7) and CoraLite@488-conjugated streptavidin. Cells were co-stained with APC Anti-Human CD3. Cells were incubated with FC Receptor Block prior to staining. Cells were not fixed.

1×10^6 PHA-treated human PBMCs were surface stained with 5 ul Biotin Anti-Human PD-1/CD279 (EH12.2H7) Mouse IgG2a RecAb (Biotin-65586, Clone: EH12.2H7) and CoraLite@488-conjugated streptavidin (red), or unstained (blue), or 1×10^6 untreated human PBMCs were surface stained with 0.25 ug Biotin Anti-Human PD-1/CD279 (EH12.2H7) Mouse IgG2a RecAb (Biotin-65586, Clone: EH12.2H7) and CoraLite@488-conjugated streptavidin (black, dashed).

