For Research Use Only

## PE Anti-Human PD-1/CD279 Rabbit Recombinant Antibody

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**Purification Method:** 

Excitation/Emission maxima

496 nm, 565 nm / 578 nm

suspension

wavelengths:

Catalog Number: PE-98068

**Basic Information** 

Catalog Number: GenBank Accession Number:

PE-98068 BC074740 Protein A purification
Size: GeneID (NCBI): CloneNo.:

100tests , 5 ul/test 5133 240724G11

Source: UNIPROT ID: Recommended Dilutions:
Rabbit Q15116 FC: 5 ul per 10^6 cells in a 100 μl

Isotype: Full Name:

IgG programmed cell death 1

Immunogen Catalog Number: Calculated MW:

EG0974 288 aa, 32 kDa

Positive Controls:

FC: PHA treated human PBMCs,

**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

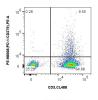
Storage:

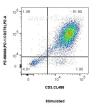
Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer

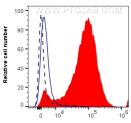
PBS with 0.09% sodium azide and 0.5% BSA, pH7.3

## **Selected Validation Data**





1x10^6 untreated or PHA-treated human PBMCs were surface stained with CoraLite® Plus 488 Anti-Human CD3 (UCHT1) Mouse IgG2a Recombinant Antibody (CL488-65570, Clone: UCHT1) and 5 ul PE Anti-Human PD-1/CD279 Rabbit RecAb (PE-98068, Clone:240724G11). Cells were not fixed.



PE-98068(PD-1/CD279),PE-A

1x10^6 PHA-stimulated human PBMCs (red) were stained with 5 ul PE Anti-Human PD-1/CD279 Rabbit RecAb (PE-98068, Clone: 240724G11) (red) or PE Rabbit IgG Isotype Control RecAb (PE-98136, Clone: 240953C9) (blue). 1x10^6 untreated human PBMCs were stained with 5 ul PE Anti-Human PD-1/CD279 Rabbit RecAb (PE-98068, Clone: 240724G11) (black, dashed). Cells were not fixed.