

For Research Use Only

PE-Cyanine7 Anti-Mouse PD-1/CD279 Rabbit Recombinant Antibody

Catalog Number: PY7-98080



Basic Information

Catalog Number:

PY7-98080

Size:

100ug, 200 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

EG0918

GenBank Accession Number:

NM_008798.2

GeneID (NCBI):

18566

UNIPROT ID:

Q02242

Full Name:

programmed cell death 1

Calculated MW:

32 kDa

Purification Method:

Protein A purification

CloneNo.:

240389B8

Recommended Dilutions:

FC: 0.1 ug per 10⁶ cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:

496 nm, 565 nm / 778 nm

Applications

Tested Applications:

FC

Species Specificity:

mouse

Positive Controls:

FC : anti-CD3/CD28 treated mouse splenocytes,

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 and 0.5% BSA, pH7.3

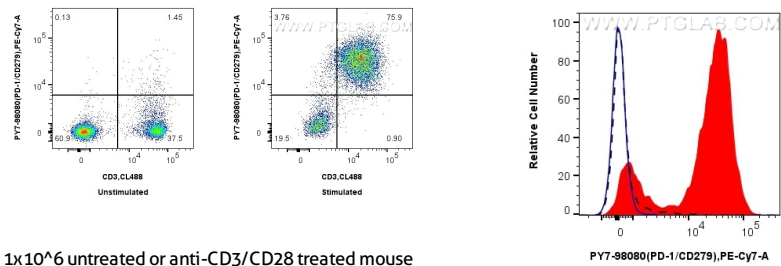
For technical support and original validation data for this product please contact:

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

Selected Validation Data



1x10⁶ untreated or anti-CD3/CD28 treated mouse splenocytes were surface stained with FcZero-rAb® CoraLite® Plus 488 Anti-Mouse CD3e and 0.1 ug PE-Cyanine7 Anti-Mouse PD-1/CD279 Rabbit RecAb (PY7-98080, Clone: 240389B8). Cells were incubated with MonoZero™ Monocytes blocking Reagent (PF00020) prior to staining. Cells were not fixed.

1x10⁶ anti-CD3/CD28 treated mouse splenocytes were surface stained with 0.1 ug PE-Cyanine7 Anti-Mouse PD-1/CD279 Rabbit RecAb (PY7-98080, Clone: 240389B8) (red) or PE-Cyanine7 Rabbit IgG Isotype Control Recombinant Antibody (PY7-98136, Clone: 240953C9) (blue). 1x10⁶ untreated mouse splenocytes were surface stained with 0.1 ug PE-Cyanine7 Anti-Mouse PD-1/CD279 Rabbit RecAb (PY7-98080, Clone: 240389B8) (black, dashed). Cells were not fixed.

