For Research Use Only

FcZero-rAb® PE Anti-Human PD-1/CD279 Rabbit Recombinant Antibody

Catalog Number:PE-FcA98068 1 Publications

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Basic Information

Catalog Number:
PE-FcA98068

Concentration:
100tests, 5 ul/test

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
EG0974

GenBank Accession Number:
BC074740

GeneID (NCBI):
5133

UNIPROT ID:
Q15116

Full Name:
programmed cell death 1

Calculated MW:
288 aa, 32 kDa

Purification Method:
Protein A purification

CloneNo.:
240724G11

Recommended Dilutions:
FC: 5 ul per 10^6 cells in 100 μl suspension

Excitation/Emission maxima wavelengths:
496 nm, 565 nm / 578 nm

Applications

Tested Applications:
FC

Cited Applications:
FC

Species Specificity:
human

Positive Controls:

FC : PHA treated human PBMCs,

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).

Notable Publications

Author	Pubmed ID	Journal	Application
Fenglin Lv	42576342	Clin Transl Med	FC

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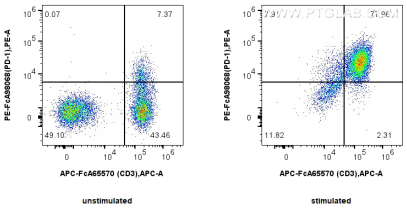
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



1x10^6 PHA treated (right) or untreated (left) human PBMC were surface stained with FcZero-rAb™ APC Anti-Human CD3 and 5 ul PE Anti-Human PD-1/CD279 Rabbit RecAb (PE-FcA98068, Clone: 240724G11). Cells were not fixed.