

For Research Use Only

PD-1/CD279 Polyclonal antibody

Catalog Number: 29780-1-AP



Basic Information

| | | |
|---------------------------------------------|----------------------------------------------|--------------------------------------------------------------|
| Catalog Number: 29780-1-AP | GenBank Accession Number: BC074740 | Purification Method: Antigen affinity purification |
| Size: 450 µg/ml | GeneID (NCBI): 5133 | Recommended Dilutions: WB 1:500-1:3000 |
| Source: Rabbit | UNIPROT ID: Q15116 | |
| Isotype: IgG | Full Name: programmed cell death 1 | |
| Immunogen Catalog Number: AG31288 | Calculated MW: 288 aa, 32 kDa | |
| | Observed MW: 55 kDa | |

Applications

| | |
|--------------------------------------------------|--------------------------------------------------------------------------|
| Tested Applications: WB, ELISA | Positive Controls: WB : mouse thymus tissue, rat thymus tissue |
| Species Specificity: Human, Mouse, Rat | |

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 -20°C.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

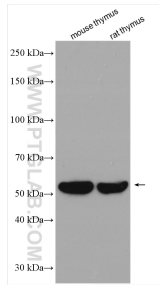
T: 4006900926

E: Proteintech-CN@ptglab.com

W: ptgcn.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 29780-1-AP (PD-1/CD279 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.