For Research Use Only

Anti-Mouse PD-1/CD279 (RMP1-14)

Catalog Number:65288-1-Ig



Basic Information

Catalog Number:

65288-1-lg

Size:

500ug , 0.5 mg/ml

Source:

Isotype: IgG2a, kappa GenBank Accession Number:

BC119179 GeneID (NCBI):

18566 Full Name:

programmed cell death 1

Purification Method: Affinity purification

CloneNo.: RMP1-14

Applications

Tested Applications: Neutralization, ELISA

Species Specificity:

mouse

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). RMP1-14 is a monoclonal antibody that targets the murine PD-1 protein and can be used in mouse models to block the reaction between PD-1 and PD-L1/PD-L2 (PMID: 14764726; 31832706).

Storage

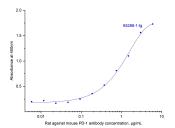
Storage:

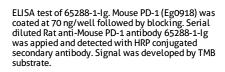
Store at 2-8°C. Stable for one year after shipment.

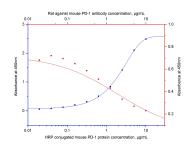
Storage Buffer:

PBS with 0.09% sodium azide, pH7.3

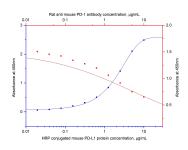
Selected Validation Data







Mouse PD-L1 (Eg0985) was coated at 70 ng/well. Serial diluted HRP conjugated mouse PD-1 (Eg0918) was added for binding test (blue cureve, refer to bottom X - left Y). Blocking test was performed by mixing serial diluted Rat anti-mouse PD-1 antibody 65288-1-lg with 1 ug/mL HRP conjugated mouse PD-1 (Eg0918) followed by same dose coated Mouse PD-L1 (Eg0985) . Typicall ND50 is around 1ug/mL.



Mouse PD-1 (Eg0918) was coated at 70 ng/well. Serial diluted HRP conjugated mouse PD-L1 (Eg0985) was added for binding test (blue cureve, refer to bottom X - left Y). Blocking test was performed by mixing serial diluted Rat anti-mouse PD-1 antibody 65288-1-1g with 1 ug/mL HRP conjugated mouse PD-L1 (Eg0985) followed by applyting to 70 ng/well coated Mouse PD-1 (Eg0918). Typicall ND50 is around 1-5 ug/mL