For Research Use Only

CoraLite® Plus 647 Anti-Mouse PD-1/CD279 (RMP1-30)

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Catalog Number:CL647-65142

Basic Information

Catalog Number:
CL647-65142

Size:
100ug, 500 μg/ml

Source:
Rat

Isotype:
IgG2b, kappa

GenBank Accession Number:
BC119179

GeneID (NCBI):
18566

UNIPROT ID:
Q02242

Full Name:
programmed cell death 1

Purification Method:
Affinity purification

CloneNo.:
RMP1-30

Excitation/Emission maxima wavelengths:
654 nm / 674 nm

Applications

Tested Applications:
FC

Species Specificity:
Mouse

Background Information

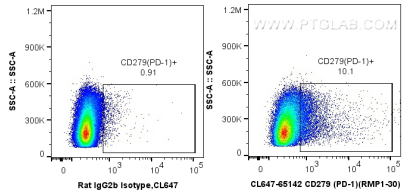
Programmed cell death 1 (PD-1, also known as CD279) is an immunoinhibitory receptor that belongs to the CD28/CTLA-4 subfamily of the Ig superfamily. It is a 288 amino acid (aa) type I transmembrane protein composed of one Ig superfamily domain, a stalk, a transmembrane domain, and an intracellular domain 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).

Storage

Storage:
Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 0.1% sodium azide and 0.5% BSA, pH 7.3.

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

Selected Validation Data



1X10^6 Con-A stimulated BALB/c mouse splenocytes were surface stained with 0.5 ug CoraLite® Plus 647 Anti-Mouse PD-1/CD279 (CL647-65142, Clone: RMP1-30) or isotype control antibody. Cells were not fixed.