For Research Use Only

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



Catalog Number: CL647-65142

**Basic Information** 

**Applications** 

Catalog Number:

CL647-65142

ıze:

100ug , 500  $\mu g/ml$ 

Source: Rat

Isotype: IgG2b, kappa

Tested Applications:

FC

Species Specificity:

Mouse

GenBank Accession Number:

BC119179 GenelD (NCBI):

18566

Full Name:

programmed cell death 1

Purification Method: Affinity purification

CloneNo.: RMP1-30

Excitation/Emission maxima

wavelengths: 654 nm / 674 nm

**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

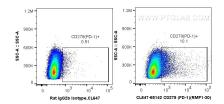
Storage:

Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffe

PBS with 0.1% sodium azide and 0.5% BSA, pH 7.3.

## Selected Validation Data



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