

For Research Use Only

# PE Anti-Mouse PD-1/CD279 (RMP1-30)



Catalog Number: PE-65142

## Basic Information

<b>Catalog Number:</b> PE-65142	<b>GenBank Accession Number:</b> BC119179	<b>Purification Method:</b> Affinity purification
<b>Size:</b> 100ug, 0.2 mg/ml	<b>GeneID (NCBI):</b> 18566	<b>CloneNo.:</b> RMP1-30
<b>Source:</b> Rat	<b>UNIPROT ID:</b> Q02242	<b>Excitation/Emission maxima wavelengths:</b> 496 nm, 565 nm / 578 nm
<b>Isotype:</b> IgG2b, kappa	<b>Full Name:</b> programmed cell death 1	

## 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:**  
Phosphate based buffer with 0.09% sodium azide and 0.1% gelatin, pH 7.2.

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

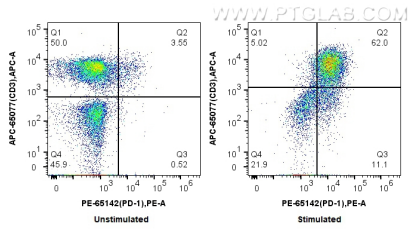
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E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

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## Selected Validation Data



1X10<sup>6</sup> untreated or anti-CD3 (clone: 145-2C11) treated mouse splenocytes were surface stained with APC-anti-mouse CD3 (APC-65077, clone 17A2) and 0.25 ug PE Anti-Mouse PD-1/CD279 (PE-65142, Clone: RMP1-30). Cells were not fixed.