

For Research Use Only

# PE Anti-Human CD279 (EH12.2H7)

Catalog Number: PE-65168



## Basic Information

**Catalog Number:**  
PE-65168

**Size:**  
100tests , 5 µl/test

**Source:**  
Mouse

**Isotype:**  
IgG1, kappa

**GenBank Accession Number:**  
BC074740

**GeneID (NCBI):**  
5133

**Full Name:**  
programmed cell death 1

**Calculated MW:**  
288 aa, 32 kDa

**Purification Method:**

The purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography.

**CloneNo.:**  
EH12.2H7

**Excitation/Emission maxima wavelengths:**  
496 nm, 565 nm / 578 nm

## Applications

**Tested Applications:**  
FC

**Species Specificity:**  
Non-human primates, Human

## 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).

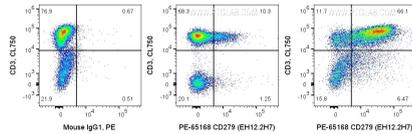
## Storage

**Storage:**  
Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.09% sodium azide and 0.5% BSA.

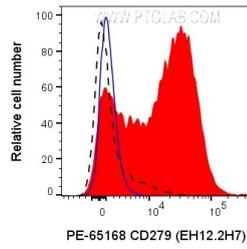
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)      E: proteintech@ptglab.com  
W: ptglab.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

## Selected Validation Data



1X10<sup>6</sup> PHA treated (3d) human PBMCs were surface co-stained with CL750 Anti-Human CD3 and 5 ul PE Anti-Human CD279 (PE-65168, Clone:EH12.2H7) (right) or Mouse IgG1 Isotype Control (left). 1X10<sup>6</sup> untreated human PBMCs were surface co-stained with CL750 Anti-Human CD3 and 5 ul PE Anti-Human CD279 (PE-65168, Clone:EH12.2H7) (center). Cells were not fixed. Lymphocytes were gated.



1X10<sup>6</sup> PHA treated (3d) human PBMCs were surface stained with 5 ul PE Anti-Human CD279 (PE-65168, Clone:EH12.2H7) (red) or Mouse IgG1 Isotype Control (blue). 1X10<sup>6</sup> untreated human PBMCs were surface stained with 5 ul PE Anti-Human CD279 (PE-65168, Clone:EH12.2H7) (black dashed). Cells were not fixed. Lymphocytes were gated.