

# CoraLite® Plus 488 Anti-Mouse PD-1/CD279 (J43.1)

Catalog Number: **CL488-65120**

## Basic Information

**Catalog Number:**

CL488-65120

**Size:**

100ug , 500 µg/ml

**Source:**

Armenian Hamster

**Isotype:**

IgG

**GenBank Accession Number:**

BC119179

**GeneID (NCBI):**

18566

**UNIPROT ID:**

Q02242

**Full Name:**

programmed cell death 1

**Purification Method:**

Affinity purification

**CloneNo.:**

J43.1

**Excitation/Emission maxima wavelengths:**

493 nm / 522 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 0.09% sodium azide and 0.5% BSA, pH 7.3.

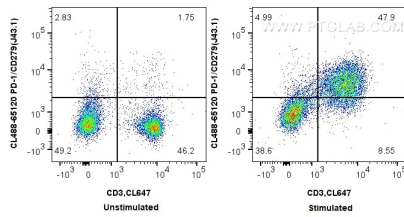
For technical support and original validation data for this product please contact:

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## Selected Validation Data



1x10<sup>6</sup> untreated or anti-CD3/CD28 treated (2 days) mouse splenocytes were surface stained with 0.5 ug CoraLite® Plus 488 Anti-Mouse PD-1/CD279 (J43.1) (CL488-65120, Clone: J43.1) and 0.5 ug CoraLite® Plus 647 Anti-Mouse CD3 (17A2) (CL647-65077, Clone: 17A2). Cells were not fixed.