

CoraLite® Plus 488 Anti-Human PD-1/CD279 Rabbit scFv Antibody

Catalog Number: CL488-SF98068

Basic Information

Catalog Number:

CL488-SF98068

Source:

Rabbit

Type:

scFv

Immunogen Catalog Number:

EG0974

GenBank Accession Number:

BC074740

GeneID (NCBI):

5133

Full Name:

programmed cell death 1

Calculated MW:

288 aa, 32 kDa

Purification Method:

Affinity purification

CloneNo.:

240724G11

Recommended Dilutions:FC: 0.25 ug per 10⁶ cells in a 100 µl suspension**Excitation/Emission maxima wavelengths:**

493 nm / 522 nm

Applications

Tested Applications:

FC

Species Specificity:

human

Positive Controls:

FC : PHA treated human PBMCs,

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). It has been reported that PD-1 is heavily glycosylated and migrates with an apparent molecular mass of 47-55 kDa on SDS-PAGE, which is larger than its predicted mass of 32 kDa (PMID: 8671665; 17640856; 17003438).

Storage

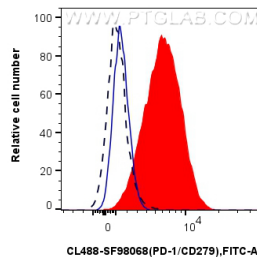
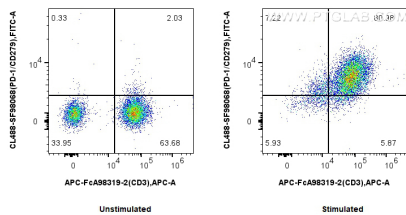
Storage:

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

Storage Buffer:

50mM HEPES, 150mM NaCl, 5mM EDTA, 0.1% CHAPS, 10% Sucrose and 0.1% Proclin300, pH7.3

Selected Validation Data



1x10⁶ untreated or PHA treated human PBMCs were surface stained with FcZero-rAb® APC Anti-Human CD3 and 0.25 ug CoraLite® Plus 488 Anti-Human PD-1/CD279 Rabbit scFv Antibody (CL488-SF98068, Clone: 240724G11). Cells were not fixed.

1x10⁶ PHA treated human PBMCs were surface stained with 0.25 ug CoraLite® Plus 488 Anti-Human PD-1/CD279 Rabbit scFv Antibody (CL488-SF98068, Clone: 240724G11) (red) or 0.25 ug CoraLite® Plus 488 Rabbit scFv Isotype Control (CL488-SF98136, Clone: 240953C9) (blue). 1x10⁶ untreated human PBMCs were surface stained with 0.25 ug CoraLite® Plus 488 Anti-Human PD-1/CD279 Rabbit scFv Antibody (CL488-SF98068, Clone:

