For Research Use Only

CoraLite® Plus 488 Anti-Human PD-1/CD279 (EH12.2H7)

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Catalog Number: CL488-65168

Basic Information

Catalog Number: CL488-65168 Concentration: 100tests, 5 ul/test

Source: Mouse Isotype: IgG1, kappa

GenBank Accession Number: BC074740 GeneID (NCBI): **UNIPROT ID:** Q15116 Full Name: programmed cell death 1

Calculated MW: 288 aa, 32 kDa

Purification Method: Affinity purification

CloneNo.: EH12.2H7

Recommended Dilutions: FC: 5 ul per 10^6 cells in 100 μ l suspension

Excitation/Emission maxima wavelengths: 493 nm / 522 nm

Applications

Tested Applications: FC

Species Specificity:

human, non-human primates

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).

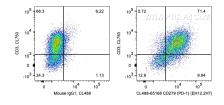
Storage

Storage:

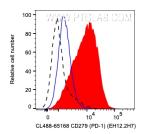
Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.

PBS with 0.09% sodium azide and 0.5% BSA, pH7.3

Selected Validation Data



1X10^6 PHA treated human PBMCs were surface costained with CL750 Anti-Human CD3 and 5 ul Coralite® Plus 488 Anti-Human PD-1/CD279 (CL488-65168, Clone:EH12.2H7) or Coralite® Plus 488 Mouse IgG1 Isotype Control (MOPC-21) (CL488-65124, Clone: MOPC-21). Cells were not fixed.



1X10^6 day 3 PHA treated human PBMCs were surface stained with 5 ul Coralite® Plus 488 Anti-Human PD-1/CD279 (CL488-65168, Clone: EH12.2H7) (red) or Mouse IgG1 Isotype Control (blue). Unactivated PBMCs were surface stained with 5 ul Coralite® Plus 488 Anti-Human PD-1/CD279 (black). Cells were not fixed. Lymphocytes were gated.