For Research Use Only

CoraLite® Plus 405 Anti-Human PD-1/CD279 Rabbit Recombinant Antibody

Catalog Number: CL405-98068



Purification Method:

Protein A purification

Basic Information

Catalog Number: GenBank Accession Number: CL405-98068 BC074740

 Concentration:
 GeneID (NCBI):
 CloneNo.:

 100tests, 5 ul/test
 5133
 240724G11

 Source:
 UNIPROT ID:
 Recommended Dilutions:

 Rabbit
 Q15116
 FC: 5 ul per 10^6 cells in a 100 μl

 Isotype:
 Full Name:
 suspension

gG programmed cell death 1 Excitation/Emission maxima

Immunogen Catalog Number: Calculated MW: wavelengths:
EG0974 288 aa, 32 kDa 399 nm / 422 nm

Applications

Tested Applications:

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:

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

Selected Validation Data





1x10^6 untreated or PHA-treated human PBMCs were surface stained with FITC Plus Anti-Human CD3 (OKT3) Mouse IgG2a RecAb (FITC-65569, Clone: OKT3) and 5 ul CoraLite® Plus 405 Anti-Human PD-1/CD279 Rabbit RecAb (CL405-98068, Clone: 240724G11). Cells were not fixed.