For Research Use Only

CoraLite® Plus 555 Anti-Human PD-1/CD279 (EH12.2H7)

Catalog Number:CL555-65168 1 Publications

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
CL555-65168

Concentration:
100tests, 5 ul/test

Source:
Mouse

Isotype:
IgG1, kappa

GenBank Accession Number:
BC074740

GeneID (NCBI):
5133

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 μl suspension

Excitation/Emission maxima wavelengths:
554 nm / 570 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).

Notable Publications

Author	Pubmed ID	Journal	Application
Dongke Yan	41610967	Cell Signal	

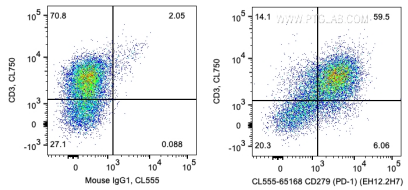
Storage

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

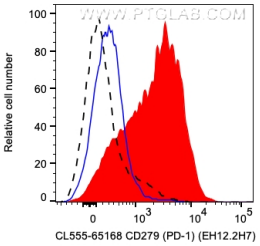
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

Selected Validation Data



1X10^6 day 3 PHA treated human PBMCs were surface co-stained with CL750 Anti-Human CD3 and 5 ul CoraLite® Plus 555 Anti-Human PD-1/CD279 (CL555-65168, Clone: EH12.2H7) or Mouse IgG1 Isotype Control. Cells were not fixed. Lymphocytes were gated.



1X10^6 day 3 PHA treated human PBMCs were surface stained with 5 ul CoraLite® Plus 555 Anti-Human PD-1/CD279 (CL555-65168, Clone: EH12.2H7) (red) or Mouse IgG1 Isotype Control (blue). Unactivated PBMCs were surface stained with 5 ul CoraLite® Plus 555 Anti-Human PD-1/CD279 (black). Cells were not fixed. Lymphocytes were gated.