

PE/Cyanine7 anti-human CD279 (PD-1) Recombinant Antibody

Catalog# / Size	335711 / 25 tests 335712 / 100 tests
Clone	MIH4.Rec
Regulatory Status	RUO
Other Names	PD1, P:D-1, PDCD1
Isotype	Mouse IgG1, κ
Description	CD279, also known as Programmed cell Death 1 (PD-1), is a 55 kD member of the immunoglobulin superfamily. CD279 contains the immunoreceptor tyrosine-based inhibitory motif (ITIM) in the cytoplasmic region and plays a key role in peripheral tolerance and autoimmune diseases. CD279 is expressed predominantly on activated T cells, B cells, and myeloid cells. PD-L1 (B7-H1, CD274) and PD-L2 (B7-DC, CD273) are ligands of CD279 and are members of the B7 gene family. The interaction with CD279 ligands results in inhibition of T cell proliferation and cytokine secretion.

Product Details

Verified Reactivity	Human
Antibody Type	Recombinant
Host Species	Mouse
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with PE/Cyanine7 under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool).
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is 5 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application Notes	MIH4.rec clone does not affect the binding of clones NAT105, EH12.2H7, A17188A, and A17188B on target cells.
RRID	AB_3720491 (BioLegend Cat. No. 335711) AB_3720491 (BioLegend Cat. No. 335712)

Antigen Details

Structure	55 kD, immunoglobulin superfamily
Distribution	Transiently expressed on CD4- and CD8- thymocytes, upregulated in thymocytes and splenic T and B lymphocytes, and is expressed on activated myeloid cells
Function	Signaling, co-stimulation (co-inhibition)

Interaction	SHP-1 and SHP-2.
Ligand/Receptor	PD-L1 (CD274) and PD-L2 (CD273)
Cell Type	Lymphocytes, T cells
Biology Area	Cell Biology, Immuno-Oncology, Immunology, Inhibitory Molecules
Molecular Family	CD Molecules, Immune Checkpoint Receptors
Antigen References	1. Francisco LM, <i>et al.</i> 2010. <i>Immunological Rev.</i> 236:219.
Gene ID	5133

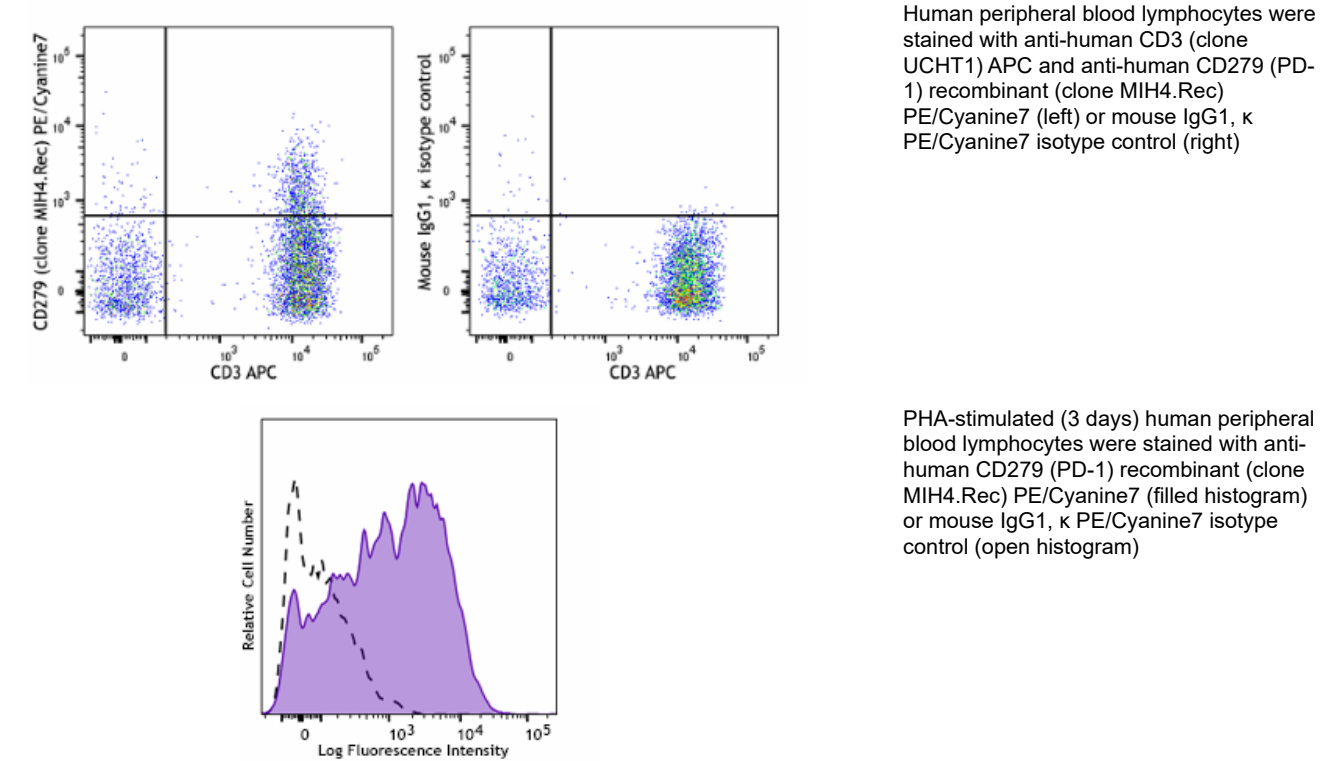
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

FITC anti-human CD279 (PD-1) Recombinant Antibody, APC anti-human CD279 (PD-1) Recombinant Antibody, Brilliant Violet 711™ anti-human CD279 (PD-1) Recombinant Antibody, Purified anti-human CD279 (PD-1) Recombinant Antibody, PE/Cyanine7 anti-human CD279 (PD-1) Recombinant Antibody

Product Data



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