FITC anti-human CD279 (PD-1) Recombinant Antibody

Catalog# / Size	335709 / 25 tests 335710 / 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 FITC 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 µL per million cells in 100 µL staining volume or 5 µL per 100 µL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Blue Laser (488 nm)
Application Notes	MIH4.rec clone does not affect the binding of clones NAT105, EH12.2H7, A17188A, and A17188B on target cells.
RRID	AB_3698988 (BioLegend Cat. No. 335709) AB_3698988 (BioLegend Cat. No. 335710)

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, *et al*. 2010. *Immunological Rev*. 236:219.
Gene ID	5133

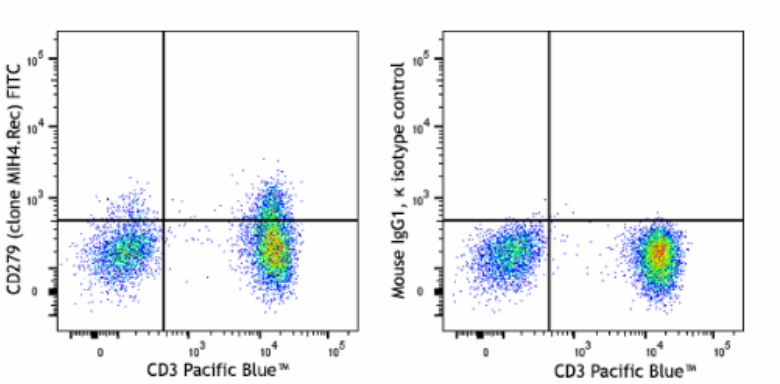
Related Protocols

- Cell Surface Flow Cytometry Staining Protocol

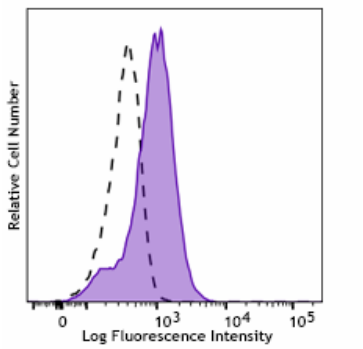
Other Formats

Purified anti-human CD279 (PD-1) Recombinant Antibody, APC anti-human CD279 (PD-1) Recombinant Antibody, FITC anti-human CD279 (PD-1) Recombinant Antibody

Product Data



Human peripheral blood lymphocytes were stained with anti-human CD3 (clone UCHT1) Pacific Blue™ and anti-human CD279 (PD-1) recombinant (clone MIH4.Rec) FITC (left) or mouse IgG1, κ FITC isotype control (right).



PHA stimulated (3 days) human peripheral blood lymphocytes were stained with anti-human CD279 (PD-1) recombinant (clone MIH4.Rec) FITC (filled histogram) or mouse IgG1, κ FITC isotype control.

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