

Brilliant Violet 711™ anti-human CD279 (PD-1) Recombinant Antibody

Catalog# / Size	335713 / 25 tests 335714 / 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 Brilliant Violet 711™ 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. Brilliant Violet 711™ excites at 405 nm and emits at 711 nm. The bandpass filter 710/50 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 711™ is a trademark of Sirigen Group Ltd. Learn more about Brilliant Violet™. This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.
Excitation Laser	Violet Laser (405 nm)

Application Notes	MIH4.rec clone does not affect the binding of clones NAT105, EH12.2H7, A17188A, and A17188B on target cells.
RRID	AB_3717233 (BioLegend Cat. No. 335713) AB_3717233 (BioLegend Cat. No. 335714)

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](#)

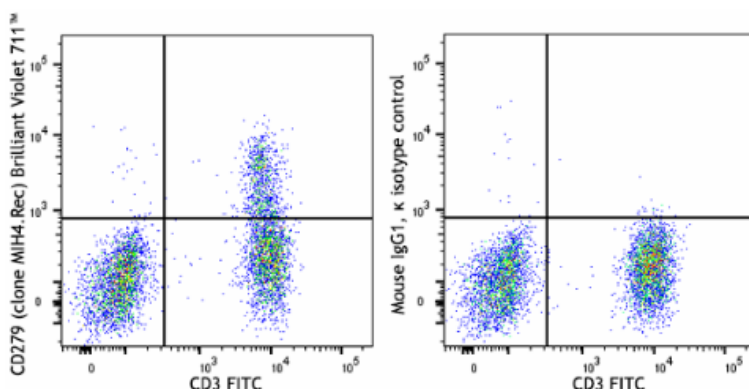
Related Protocols

- [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



Human peripheral blood lymphocytes were stained with anti-human CD3 (clone UCHT1) FITC and anti-human CD279 (PD-1) recombinant (clone MIH4.Rec) Brilliant Violet 711™ (left) or mouse IgG1, κ Brilliant Violet 711™ isotype control (right).

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