

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

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| 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

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| 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 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) |
| 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

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| 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. |

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|---------------------------|---|
| 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 |

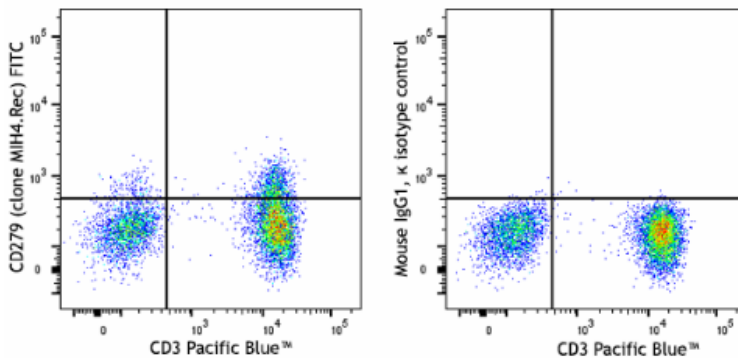
Related Protocols

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

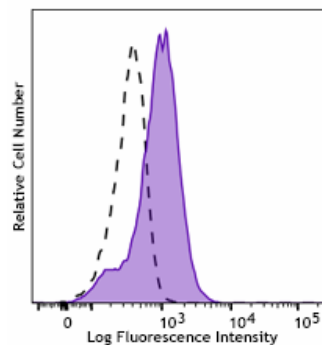
Other Formats

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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