

CD279 (PD-1) Monoclonal Antibody (MIH4), Alexa Fluor™ 488, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Alexa Fluor™ 488, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	MIH4
Conjugate	Alexa Fluor™ 488
Excitation/Emission Max	499/520 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2762480

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.5 µg)/test	6 Publications

Product Specific Information

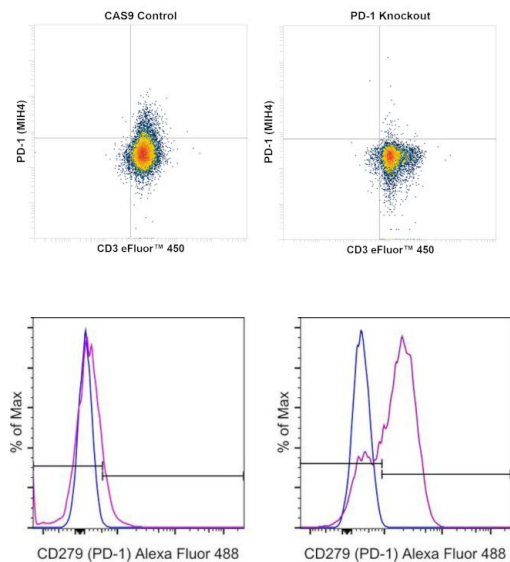
Description: The MIH4 monoclonal antibody reacts with the human PD-1 (programmed death-1), a 55 kDa member of the immunoglobulin superfamily. PD-1 contains the immunoreceptor tyrosine-based inhibitory motif (ITIM) and plays a key role in peripheral tolerance and autoimmune disease. PD-1 is expressed predominantly on activated T and B lymphocytes. Two novel members of the B7 family have been identified as the PD-1 ligands, PD-L1 (B7-H1) and PD-L2 (B7-DC). Evidence reported to date suggests overlapping functions for these two PD-1 ligands and their constitutive expression on some normal tissues and upregulation on activated antigen-presenting cells. The MIH4 antibody recognizes a different epitope than antibody clones J105.

Applications Reported: This MIH4 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This MIH4 antibody has been pre-diluted and tested by flow cytometric analysis of stimulated normal human peripheral blood cells. This may be used at 5 µL (0.5 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

Excitation: 488 nm; **Emission:** 519 nm; **Laser:** Blue Laser

Product Images For CD279 (PD-1) Monoclonal Antibody (MIH4), Alexa Fluor™ 488, eBioscience™



CD279 (PD-1) Antibody (53-9969-42)

Antibody clone (MIH4) specificity was demonstrated by CRISPR-Cas9 mediated knockout of target protein. Loss of signal was observed for target protein in MIH4 KO cells (left) compared to the control Cas9 cells (right) using CD279 antibody (MIH4). {KO}

CD279 (PD-1) Antibody (53-9969-42) in Flow

Normal human peripheral blood cells were unstimulated (left) or stimulated with PHA-L (Product # 00-4977-03) (right). Cells were then stained with Mouse IgG1 kappa Isotype Control, Alexa Fluor® 488 (Product # 53-4714-80) (blue histogram) or CD279 Monoclonal Antibody, Alexa Fluor® 488 (purple histogram). Total viable cells were used for analysis, as determined by 7-AAD (Product # 00-6993-50).

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6 References

Flow Cytometry (6)

Frontiers in immunology	Year 2021
Bispecific T-Cell Engaging Antibodies Against MUC16 Demonstrate Efficacy Against Ovarian Cancer in Monotherapy and in Combination With PD-1 and VEGF Inhibition.	
"Published figure using CD279 (PD-1) monoclonal antibody (Product # 53-9969-42) in Flow Cytometry"	
Authors: Yeku OO,Rao TD,Laster I,Kononenko A,Purdon TJ,Wang P,Cui Z,Liu H,Brentjens RJ,Spriggs D	
Biomedicines	Year 2021
Imaging Changes and Immune-Checkpoint Expression on T Cells in Bronchoalveolar Lavage Fluid from Patients with Pulmonary Sarcoidosis.	
"Published figure using CD279 (PD-1) monoclonal antibody (Product # 53-9969-42) in Flow Cytometry"	
Authors: Kotetsu Y,Yanagihara T,Suzuki K,Ando H,Eto D,Hata K,Arimura-Omori M,Yamamoto Y,Harada E,Hamada N	

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