



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
Туре	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

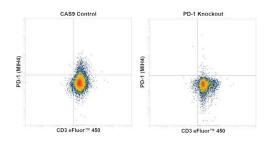
Description: The MIH4 monoclonal antibody reacts with the human PD-1 (programmed death-1), a 55 kDa member of the immunoglobulin superfamily. PD-1 contains the immunoreceptor tyrosine-based inhibitory motif (ITIM) and plays a key role in peripheral tolerance and autoimmune disease. PD-1 is expressed 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 10^8 cells/test.

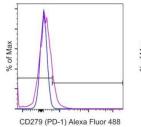
Excitation: 488 nm; Emission: 519 nm; Laser: Blue Laser

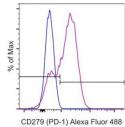
Product Images For CD279 (PD-1) Monoclonal Antibody (MIH4), Alexa Fluor™ 488, eBioscience™



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

Antibody clone (MIH4) specificity was demonstrated by CRISPR-Cas9 mediated knockout of target protein. Lossof signal was observed for target protein in MIH4 KOcells (left) compared to the control Cas9cells (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).

View more figures on thermofisher.com

□ 6 References

Flow Cytometry (6)

Frontiers in immunology

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

Year 2021

Biomedicines

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

Year 2021

View more Flow references on thermofisher.com

More applications with references on thermofisher.com

For Research Use Only, Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"), No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is immitted to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample increase and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT.

BUYER'S EXCLUSIVE REMEDY FOR NON-CORPORMING PRODUCTS DURING HE WARRANTY PERFIOI DIS LIMITED. A CEPTAIN, PERFIOI DESCRIPTION FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, or vitro of consumption to human or animal to human or anim