Performance guarenteed

CD274 (PD-L1, B7-H1) Monoclonal Antibody (MIH5), eBioscience™

Product Details

Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotype	Rat / IgG2a, lambda
Class	Monoclonal
Туре	Antibody
Clone	MIH5
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_467781

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500	2 Publications
Immunohistochemistry (IHC)	-	12 Publications
Immunohistochemistry (Frozen) (IHC (F))	Assay-Dependent	1 Publication
Immunocytochemistry (ICC/IF)	-	2 Publications
Flow Cytometry (Flow)	0.25 μg/test	67 Publications
ELISA (ELISA)	-	1 Publication
Neutralization (Neu)	Assay-Dependent	12 Publications
Functional Assay (FN)	Assay-Dependent	3 Publications
Inhibition Assays (IA)	-	2 Publications
Miscellaneous PubMed (Misc)	-	1 Publication

Product Specific Information

Description: The MIH5 monoclonal antibody reacts with mouse B7-H1, also known as PD-L1. B7-H1, a member of the B7 family, has a predicted molecular weight of approximately 40 kDa and belongs to the Ig superfamily. B7-H1 is expressed on a majority of leukocytes including T, B, NK and DC. B7-H1 is a ligand for PD-1. Interaction of PD-1 with either PD-L1 (B7-H1) or PD-L2 (B7-DC) results in inhibition of T and B cell responses. MIH5 is reported to be a blocking antibody.

Applications Reported: The MIH5 antibody has been reported for use in flow cytometric analysis, and immunohistochemical staining of frozen tissue sections. It has also been reported in blocking in in vitro and in vivo functional assays. (Please use Functional Grade Purified MIH5, cat. 16-5982, in functional assays. Fluorochrome-conjugated MIH5 is recommended for use in flow cytometry.).

1

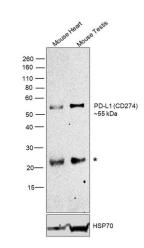
Applications Tested: This MIH5 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.25 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

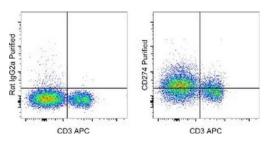
Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD274 (PD-L1, B7-H1) Monoclonal Antibody (MIH5), eBioscience™



CD274 (PD-L1, B7-H1) Antibody (14-5982-82) in WB

Western blot was performed using Anti-CD274 (PD-L1, B7-H1) Monoclonal Antibody (MIH5), eBioscience[™] (Product # 14-5982-82) and a 55kDa band corresponding to Programmed cell death 1 ligand 1 was observed across tissue extracts tested. A 25 kDa band (*) corresponding to IgG was also observed in these tissues. Tissue extracts (30 µg lysate) of Mouse Heart (Lane 1) and Mouse Testis (Lane 2) were electrophoresed using NuPAGE[™] 10% Bis-Tris Protein Gel (Product # NP0302BOX). Resolved proteins were then transferred onto a Nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:500 dilution) and detected by chemiluminescence with F(ab2-Rabbit anti-Rat IgG (H+L Secondary Antibody, HRP (Product # PA1-29927, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using SuperSignal[™] West Dura Extended Duration Substrate (Product # 34076).



CD274 (PD-L1, B7-H1) Antibody (14-5982-82) in Flow

Staining of C57BI/6 splenocytes with Anti-Mouse CD3e APC (Product # 17-0031-82) and 0.25 µg of Rat IgG2a K Isotype Control Purified (Product # 14-4321-82) (left) or 0.25 µg of Anti-Mouse CD274 (PD-L1, B7-H1) Purified (right) followed by Anti-Rat IgG Biotin (Product # 13-4813-85) and Streptavidin PE (Product # 12-4317-87). Total viable cells were used for analysis.

View more figures on thermofisher.com

□ 103 References

Western Blot (2)

Nature communications Neuronal IFN-beta-induced PI3K/Akt-FoxA1 signalling is essential for generation of FoxA1 ⁺ T _{reg} cells.	Year 2017
"Published figure using CD274 (PD-L1, B7-H1) monoclonal antibody (Product # 14-5982-82) in Western Blot" Authors: Liu Y,Marin A,Ejlerskov P,Rasmussen LM,Prinz M,Issazadeh-Navikas S	
Cancer research A mechanism of hypoxia-mediated escape from adaptive immunity in	Year 2014

cancer cells. "14-5982 was used in Flow cytometry/Cell sorting to investigate whether exposure of mouse and human tumour cells to hypoxia increases their resistance to T cell-mediated immunity."

Authors: Barsoum IB,Smallwood CA,Siemens DR,Graham CH

Immunohistochemistry (12)

Journal of translational medicine	Year 2022
Scoring model based on the signature of non-m6A-related neoantigen- coding IncRNAs assists in immune microenvironment analysis and TCR- neoantigen pair selection in gliomas.	
"Published figure using CD274 (PD-L1, B7-H1) monoclonal antibody (Product # 14-5982-82) in Immunohistochemistry"	
Authors: Zhao W,Wu Y,Zhao F,Xue Z,Liu W,Cao Z,Zhao Z,Huang B,Han M,Li X	

Molecular therapy oncolytics

IFNAR blockade synergizes with oncolytic VSV to prevent virusmediated PD-L1 expression and promote antitumor T cell activity.

"Published figure using CD274 (PD-L1, B7-H1) monoclonal antibody (Product # 14-5982-82) in Immunohistochemistry" Authors: El-Sayes N,Walsh S,Vito A,Reihani A,Ask K,Wan Y,Mossman K

View more IHC references on thermofisher.com

Species

Dilution

1:250

Year 2022

Mouse

More applications with references on thermofisher.com

IHC (F) (1) ICC/IF (2) Flow (67) ELISA (1) Neu (12) FN (3) IA (2) Misc (1)

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 packing arrow date of simple functionation of sample functionation in the Product is ubjected to normal, proper and intended usage. This warranty to des not extend to anyone other than the Buyer. Any model or sample functionated or sample functionated or sample functionated to sample functionated to sample functionated to sample functionated to the general type and quality of goods and does not represent that any Product will conform to such model or sample function DS UNER WARRANTES, EXPRESS OR INNERLO, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTES OF MERCHANTABILITY, FITNESS FOR ANY PARTICUAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFERMING PRODUCTS DURING THE WARRANT PERIOD IS LIMITED TO REPAR, REPLACECOR REFUND OR THE NON-CONFORMING PRODUCTS ON THE REPRIND IS CLAPTICOLED FOR DEPAR, REPLACE COR REFUND FOR THE NON-CONFORMING PRODUCTS ON THERE SOLD OF THOUSTON TO REPERR, REPLACE OR REFUND FOR THE NON-CONFORMING 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 is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitr