

CD274 (PD-L1, B7-H1) Monoclonal Antibody (MIH5), Super Bright™ 436, eBioscience™

Product Details	
Size	25 µg
Species Reactivity	Mouse
Published Species	Human, Mouse
Host/Isotype	Rat / IgG2a, lambda
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Super Bright™ 436, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	MIH5
Conjugate	Super Bright™ 436
Excitation/Emission Max	413/431 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2637417

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	6 Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.25 µg/Test	27 Publications
Neutralization (Neu)	-	5 Publications
Functional Assay (Functional)	-	1 Publication
Miscellaneous PubMed (Misc)	-	1 Publication

Product Specific Information

Description: The MIH5 monoclonal antibody reacts with mouse CD274, also known as B7-H1 or 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: This MIH5 antibody has been reported for use in flow cytometric analysis.

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 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

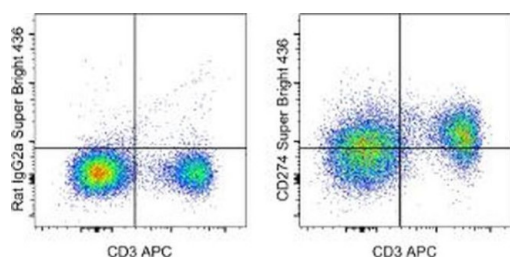
Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50 bandpass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

Excitation: 405 nm; Emission: 436 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

Product Images For CD274 (PD-L1, B7-H1) Monoclonal Antibody (MIH5), Super Bright™ 436, eBioscience™



CD274 (PD-L1, B7-H1) Antibody (62-5982-80) in Flow

Staining of BALB/c splenocytes with Anti-Mouse CD3e APC (Product # 17-0031-82) and 0.125 µg of Rat IgG2a K Isotype Control Super Bright 436 (Product # 62-4321-82) (left) or 0.125 µg of Anti-Mouse CD274 (B7-H1) Super Bright 436 (right). Cells in the lymphocyte gate were used for analysis.

[View more figures on thermofisher.com](https://www.thermofisher.com)

41 References

Immunohistochemistry (6)

Journal of translational medicine

Scoring model based on the signature of non-m6A-related neoantigen-coding lncRNAs assists in immune microenvironment analysis and TCR-neoantigen pair selection in gliomas.

"Published figure using CD274 (PD-L1, B7-H1) monoclonal antibody (Product # 62-5982-80) in Immunohistochemistry"

Authors: Zhao W,Wu Y,Zhao F,Xue Z,Liu W,Cao Z,Zhao Z,Huang B,Han M,Li X

Year
2022

Molecular therapy oncolytics

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

"Published figure using CD274 (PD-L1, B7-H1) monoclonal antibody (Product # 62-5982-80) in Immunohistochemistry"

Authors: El-Sayes N,Walsh S,Vito A,Reihani A,Ask K,Wan Y,Mossman K

Year
2022

[View more IHC references on thermofisher.com](#)

Immunocytochemistry (1)

Nature communications

Spatiotemporally restricted arenavirus replication induces immune surveillance and type I interferon-dependent tumour regression.

"Published figure using CD274 (PD-L1, B7-H1) monoclonal antibody (Product # 62-5982-80) in Immunofluorescence"

Authors: Kalkavan H,Sharma P,Kasper S,Helfrich I,Pandyra AA,Gassa A,Virchow I,Flatz L,Brandenburg T,Namineni S,Heikenwalder M,Höchst B,Knolle PA,Wollmann G,von Laer D,Drexler I,Rathbun J,Cannon PM,Scheu S,Bauer J,Chauhan J,Häussinger D,Willimsky G,Löhning M,Schadendorf D,Brandau S,Schuler M,Lang PA,Lang KS

Year
2017

Flow Cytometry (27)

International journal of pharmaceutics: X

Sustained release of therapeutic gene by injectable hydrogel for hepatocellular carcinoma.

"Published figure using CD274 (PD-L1, B7-H1) monoclonal antibody (Product # 62-5982-80) in Flow Cytometry"

Authors: Xu S,Cai J,Cheng H,Wang W

Year
2023

[View more Flow references on thermofisher.com](#)

More applications with references on thermofisher.com

Neu (5)

Functional (1)

Misc (1)

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