

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
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)	-	2 Publications
Immunofluorescence (IF)	-	2 Publications
Flow Cytometry (Flow)	0.25 µg/Test	5 Publications
Neutralization (Neu)	-	2 Publications

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

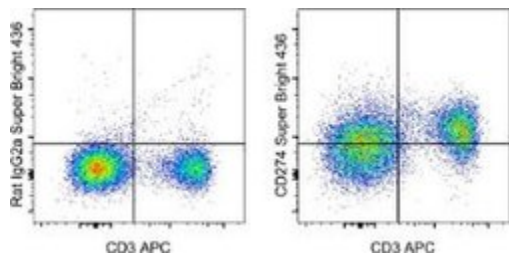
filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

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 μ g of Rat IgG2a K Isotype Control Super Bright 436 (Product # 62-4321-82) (left) or 0.125 μ g 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)

Immunohistochemistry (2)

<p>PloS one</p> <p>Preclinical Development of Ipilimumab and Nivolumab Combination Immunotherapy: Mouse Tumor Models, In Vitro Functional Studies, and Cynomolgus Macaque Toxicology.</p> <p>"Published figure using CD274 (PD-L1, B7-H1) monoclonal antibody (Product # 62-5982-80) in Immunohistochemistry"</p> <p>Authors: Selby MJ, Engelhardt JJ, Johnston RJ, Lu LS, Han M, Thudium K, Yao D, Quigley M, Valle J, Wang C, Chen B, Cardarelli PM, Blanset D, Korman AJ</p>	<p>Species Not Applicable</p> <p>Dilution Not Cited</p> <p>Year 2017</p>
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<p>Molecular medicine reports</p> <p>ATMJAKPDL1 signaling pathway inhibition decreases EMT and metastasis of androgenindependent prostate cancer.</p> <p>"Published figure using CD274 (PD-L1, B7-H1) monoclonal antibody (Product # 62-5982-80) in Immunofluorescence"</p> <p>Authors: Zhang L, Xu LJ, Zhu J, Li J, Xue BX, Gao J, Sun CY, Zang YC, Zhou YB, Yang DR, Shan YX</p>	<p>Species Not Applicable</p> <p>Dilution Not Cited</p> <p>Year 2018</p>
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Immunofluorescence (2)

<p>Molecular medicine reports</p> <p>ATMJAKPDL1 signaling pathway inhibition decreases EMT and metastasis of androgenindependent prostate cancer.</p> <p>"Published figure using CD274 (PD-L1, B7-H1) monoclonal antibody (Product # 62-5982-80) in Immunofluorescence"</p> <p>Authors: Zhang L, Xu LJ, Zhu J, Li J, Xue BX, Gao J, Sun CY, Zang YC, Zhou YB, Yang DR, Shan YX</p>	<p>Species Not Applicable</p> <p>Dilution Not Cited</p> <p>Year 2018</p>
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<p>Nature communications</p> <p>Spatiotemporally restricted arenavirus replication induces immune surveillance and type I interferon-dependent tumour regression.</p> <p>"Published figure using CD274 (PD-L1, B7-H1) monoclonal antibody (Product # 62-5982-80) in Immunofluorescence"</p> <p>Authors: Kalkavan H, Sharma P, Kasper S, Helfrich I, Pandya 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, Willmsky G, Löhning M, Schadendorf D, Brandau S, Schuler M, Lang PA, Lang KS</p>	<p>Species Not Applicable</p> <p>Dilution Not Cited</p> <p>Year 2017</p>
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More applications with references on thermofisher.com

Flow (5) Neu (2)

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