

# CD274 (PD-L1, B7-H1) Monoclonal Antibody (MIH5), PerCP-eFluor™ 710, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotype	Rat / IgG2a, lambda
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PerCP-eFluor™ 710, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	MIH5
Conjugate	PerCP-eFluor™ 710
Excitation/Emission Max	482/708 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2573819

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.125 µg/test	30 Publications

## 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:** 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 0.125 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 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm); it can be used in place of PerCP-Cyanine5.5. We recommend using a 710/50 bandpass filter, however, the 695/40 bandpass filter is an acceptable alternative. Please make sure that your instrument is capable of detecting this fluorochrome.

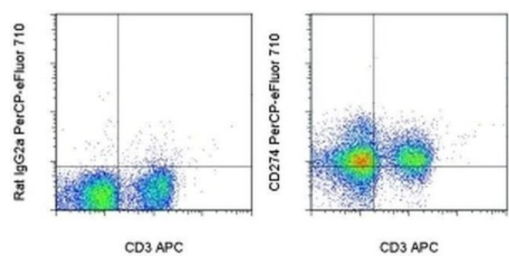
**Fixation:** Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific

performance should be determined empirically.

Excitation: 488 nm; Emission: 710 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD274 (PD-L1, B7-H1) Monoclonal Antibody (MIH5), PerCP-eFluor™ 710, eBioscience™



**CD274 (PD-L1, B7-H1) Antibody (46-5982-82) in Flow**  
Staining of C57Bl/6 splenocytes with Anti-Mouse CD3e APC (Product # 17-0031-82) and 0.06 µg of Rat IgG2a K Isotype Control PerCP-eFluor® 710 (Product # 46-4321-82) (left) or 0.06 µg of Anti-Mouse CD274 (B7-H1) PerCP-eFluor® 710 (right). Cells in the lymphocyte gate were used for analysis.

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30 References

Flow Cytometry (30)

<p>Cancers</p> <p><b>5-Azacytidine-Mediated Modulation of the Immune Microenvironment in Murine Acute Myeloid Leukemia.</b></p> <p>"Published figure using CD274 (PD-L1, B7-H1) monoclonal antibody (Product # 46-5982-82) in Flow Cytometry"</p> <p>Authors: Ebelt ND,Manuel ER</p>	<p>Year 2022</p>
<p>Aging and disease</p> <p><b>CD4<sup>+</sup> CTLs Act as a Key Effector Population for Allograft Rejection of MSCs in a Donor MHC-II Dependent Manner in Injured Liver.</b></p> <p>"Published figure using CD274 (PD-L1, B7-H1) monoclonal antibody (Product # 46-5982-82) in Flow Cytometry"</p> <p>Authors: Shen S,Li Y,Jin M,Fan D,Pan R,Lin A,Chen Y,Xiang L,Zhao RC,Shao J</p>	<p>Year 2022</p>

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