

CD274 (PD-L1, B7-H1) Monoclonal Antibody (MIH1), PerCP-eFluor 710, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotope	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PerCP-eFluor 710, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	MIH1
Conjugate	PerCP-eFluor™ 710
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin, 0.2% BSA
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_11041815

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (1 µg)/test	23 Publications
Functional Assay (FN)	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	-	2 Publications

Product Specific Information

Description: The MIH1 monoclonal antibody reacts with human 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. 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. MIH1 is reported to be a blocking antibody.

Applications Reported: This MIH1 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This MIH1 antibody has been pre-titrated and tested by flow cytometric analysis of stimulated human peripheral blood cells. This can be used at 5 µL (1 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.

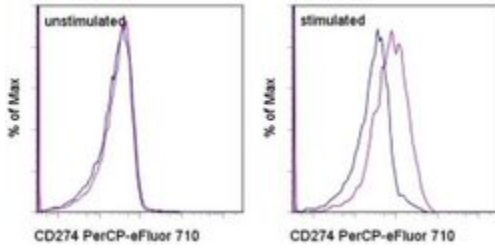
PerCP-eFluor® 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.

Our testing indicates that PerCP-eFluor® 710 conjugated antibodies are stable when stained samples are exposed to freshly prepared 2% formaldehyde overnight at 4°C, but please evaluate for alternative fixation protocols.

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 (MIH1), PerCP-eFluor 710, eBioscience™



CD274 (PD-L1, B7-H1) Antibody (46-5983-42) in Flow

Staining of unstimulated (left) or PHA-stimulated (right) normal human peripheral blood cells with Mouse IgG1 K Isotype Control PerCP-eFluor® 710 (Product # 46-4714-82) (blue histogram) or Anti-Human CD274 (B7-H1) PerCP-eFluor® 710 (purple histogram). Total viable cells were used for analysis.

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

26 References

Flow Cytometry (23)

Frontiers in pharmacology

Disruption of PD-1 Enhanced the Anti-tumor Activity of Chimeric Antigen Receptor T Cells Against Hepatocellular Carcinoma.

"Published figure using CD274 (PD-L1, B7-H1) monoclonal antibody (Product # 46-5983-42) in Flow Cytometry"

Authors: Guo X, Jiang H, Shi B, Zhou M, Zhang H, Shi Z, Du G, Luo H, Wu X, Wang Y, Sun R, Li Z

Species
Not Applicable

Dilution
Not Cited

Year
2020

Oncoimmunology

Amplification of N-Myc is associated with a T-cell-poor microenvironment in metastatic neuroblastoma restraining interferon pathway activity and chemokine expression.

"Published figure using CD274 (PD-L1, B7-H1) monoclonal antibody (Product # 46-5983-42) in Flow Cytometry"

Authors: Layer JP, Kronmüller MT, Quast T, van den Boorn-Konijnenberg D, Efferm M, Hinze D, Althoff K, Schramm A, Westermann F, Peifer M, Hartmann G, Tüting T, Kolanus W, Fischer M, Schulte J, Hölzel M

Species
Not Applicable

Dilution
Not Cited

Year
2020

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

Functional Assay (1)

Nephron. Experimental nephrology

Expression of B7-H1 in inflammatory renal tubular epithelial cells.

Authors: Chen Y, Zhang J, Li J, Zou L, Zhao T, Tang Y, Wu Y

Species
Not Applicable

Dilution
Not Cited

Year
2006

Immunohistochemistry (Frozen) (2)

Nephron. Experimental nephrology

Expression of B7-H1 in inflammatory renal tubular epithelial cells.

Authors: Chen Y, Zhang J, Li J, Zou L, Zhao T, Tang Y, Wu Y

Species
Not Applicable

Dilution
Not Cited

Year
2006

More applications with references on thermofisher.com

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