

CD274 (PD-L1, B7-H1) Monoclonal Antibody (MIH1), PE-Cyanine7, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human, Mouse
Host/Isotope	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE-Cyanine7, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	MIH1
Conjugate	PE-Cyanine7
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_1907368

Applications	Tested	Dilution	Published
Flow Cytometry (Flow)	✓	5 µL (0.25 µg)/test	33 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 normal human peripheral blood cells. This can be used at 5 µL (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.

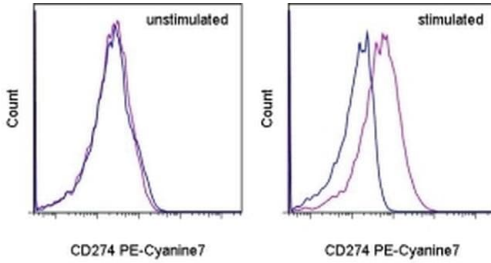
Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 μ L cell sample + 100 μ L 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: 488-561 nm; Emission: 775 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 μ m post-manufacturing filtered.

Product Images For CD274 (PD-L1, B7-H1) Monoclonal Antibody (MIH1), PE-Cyanine7, eBioscience™



CD274 (PD-L1, B7-H1) Antibody (25-5983-42) in Flow

Staining of unstimulated (left) or PHA-stimulated (right) normal human peripheral blood cells with Mouse IgG1 K Isotype Control PE-Cyanine7 (Product # 25-4714-80) (blue histogram) or Anti-Human CD274 (B7-H1) PE-Cyanine7 (purple histogram). Total viable cells were used for analysis.

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

36 References

Flow Cytometry (33)

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 # 25-5983-42) 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
2018

Nature communications

Challenging PD-L1 expressing cytotoxic T cells as a predictor for response to immunotherapy in melanoma.

Authors: Brochez L, Meireson A, Chevolet I, Sundahl N, Ost P, Kruse V

Species
Human

Dilution
Not Cited

Year
2018

[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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