

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

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human, Mouse
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	MIH1
Conjugate	PE
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_11042286

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	-	2 Publications
Flow Cytometry (Flow)	5 µL (0.5 µg)/test	37 Publications
Functional Assay (FN)	-	1 Publication

## 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.

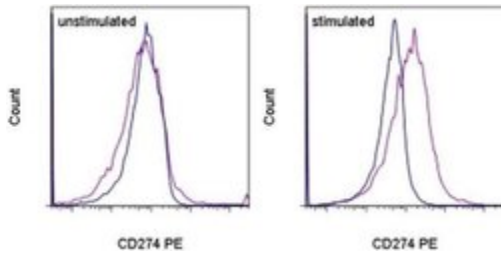
Applications Reported: The MIH1 antibody has been reported for use in flow cytometric analysis.

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 (0.5 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.

Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

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



#### CD274 (PD-L1, B7-H1) Antibody (12-5983-42) in Flow

Staining of unstimulated (left) or PHA-stimulated (right) normal human peripheral blood cells with Mouse IgG1 K Isotype Control PE (Product # 12-4714-81) (blue histogram) or Anti-Human CD274 (B7-H1) PE (purple histogram). Total viable cells were used for analysis.

## 41 References

### Immunohistochemistry (1)

Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc

#### Increase of programmed death-1-expressing intratumoral CD8 T cells predicts a poor prognosis for nasopharyngeal carcinoma.

"12-5983 was used in Immunofluorescence to propose that PD-1 expression in CD8 cells reflects the selective suppression of cytotoxic lymphocytes in the tumor microenvironment."

Authors: Hsu MC,Hsiao JR,Chang KC,Wu YH,Su IJ,Jin YT,Chang Y

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2010

### 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

Clinical cancer research : an official journal of the American Association for Cancer Research

#### Clinical significance of programmed death-1 ligand-1 and programmed death-1 ligand-2 expression in human esophageal cancer.

Authors: Ohigashi Y,Sho M,Yamada Y,Tsurui Y,Hamada K,Ikeda N,Mizuno T,Yoriki R,Kashizuka H,Yane K,Tsushima F,Otsuki N,Yagita H,Azuma M,Nakajima Y

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2005

### Flow Cytometry (37)

STAR protocols

#### Protocol for high-throughput compound screening using flow cytometry in THP-1 cells.

"12-5983 was used in Flow cytometry/Cell sorting to describe a methodology for identifying compounds that regulate PD-L1 surface expression in IFN--stimulated cells."

Authors: Spangenberg SH,Zavareh RB,Lairson LL

**Species**  
Human

**Dilution**  
1:60

**Year**  
2021

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

### More applications with references on thermofisher.com

## FN (1)

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