

# CD274 (PD-L1, B7-H1) Monoclonal Antibody (MIH1), eFluor™ 450, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), eFluor™ 450, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	MIH1
Conjugate	eFluor™ 450
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_2574091

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	2 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	2 Publications
Immunocytochemistry (ICC/IF)	-	3 Publications
Flow Cytometry (Flow)	5 µL (0.5 µg)/test	32 Publications
ELISA (ELISA)	-	1 Publication
ChIP assay (ChIP)	-	1 Publication
Neutralization (Neu)	-	3 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: This MIH1 antibody has been reported for use in flow cytometric analysis.

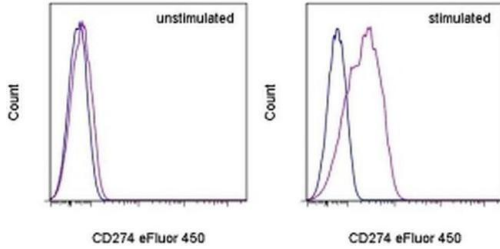
Applications Tested: This MIH1 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5  $\mu$ L (0.5  $\mu$ g) per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from  $10^5$  to  $10^8$  cells/test.

eFluor<sup>®</sup> 450 is an alternative to Pacific Blue<sup>®</sup>. eFluor<sup>®</sup> 450 emits at 445 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochoime.

Excitation: 405 nm; Emission: 445 nm; Laser: Violet Laser.

Filtration: 0.2  $\mu$ m post-manufacturing filtered.

## Product Images For CD274 (PD-L1, B7-H1) Monoclonal Antibody (MIH1), eFluor<sup>™</sup> 450, eBioscience<sup>™</sup>



### CD274 (PD-L1, B7-H1) Antibody (48-5983-42) in Flow

Staining of unstimulated (left) or PHA-stimulated (right) normal human peripheral blood cells with Mouse IgG1 K Isotype Control eFluor<sup>®</sup> 450 (Product # 48-4714-82) (blue histogram) or Anti-Human CD274 (B7-H1) eFluor<sup>®</sup> 450 (purple histogram). Viable cells in the lymphocyte gate, as determined by Fixable Viability Dye eFluor<sup>®</sup> 520 (Product # 65-0867-14), were used for analysis.

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

## Immunohistochemistry (2)

The Journal of biological chemistry

### Hormonal vitamin D up-regulates tissue-specific PD-L1 and PD-L2 surface glycoprotein expression in humans but not mice.

"Published figure using CD274 (PD-L1, B7-H1) monoclonal antibody (Product # 48-5983-42) in Immunocytochemistry"

Authors: Dimitrov V, Bouttier M, Boukhaled G, Salehi-Tabar R, Avramescu RG, Memari B, Hasaj B, Lukacs GL, Krawczyk CM, White JH

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2017

Prostate cancer and prostatic diseases

### Paucity of PD-L1 expression in prostate cancer: innate and adaptive immune resistance.

"Published figure using CD274 (PD-L1, B7-H1) monoclonal antibody (Product # 48-5983-42) in Flow Cytometry"

Authors: Martin AM, Nirschl TR, Nirschl CJ, Francica BJ, Kochel CM, van Bokhoven A, Meeker AK, Lucia MS, Anders RA, DeMarzo AM, Drake CG

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2015

## 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

## More applications with references on thermofisher.com

ICC/IF (3)   Flow (32)   ELISA (1)   CHIP (1)   Neu (3)   FN (1)

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