

# CD274 (PD-L1, B7-H1) Monoclonal Antibody (MIH5), PE-Cyanine7, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotope	Rat / IgG2a, lambda
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PE-Cyanine7, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	MIH5
Conjugate	PE-Cyanine7
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2573509

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.125 µg/test	10 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.

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

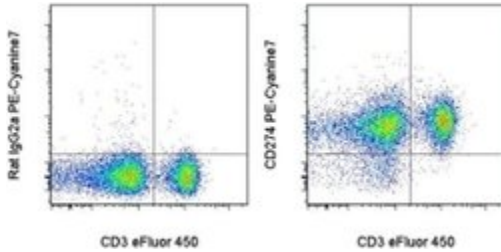
**Fixation:** Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding 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 µm post-manufacturing filtered.

## Product Images For CD274 (PD-L1, B7-H1) Monoclonal Antibody (MIH5), PE-Cyanine7, eBioscience™



### CD274 (PD-L1, B7-H1) Antibody (25-5982-82) in Flow

Staining of C57Bl/6 splenocytes with Anti-Mouse CD3 eFluor® 450 (Product # 48-0032-82) and 0.06 µg of Rat IgG2a K Isotype Control PE-Cyanine7 (Product # 25-4321-82) (left) or 0.06 µg of Anti-Mouse CD274 (B7-H1) PE-Cyanine7 (right). Cells in the lymphocyte gate were used for analysis.

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## 10 References

### Flow Cytometry (10)

#### JCI insight

#### MERTK inhibition alters the PD-1 axis and promotes anti-leukemia immunity.

"25-5982 was used in Flow cytometry/Cell sorting to demonstrate both the direct therapeutic effects of MERTK inhibition on leukaemia cells and the induction of anti-leukaemia immunity via suppression of the coinhibitory PD-1 axis."

Authors: Lee-Sherick AB, Jacobsen KM, Henry CJ, Huey MG, Parker RE, Page LS, Hill AA, Wang X, Frye SV, Earp HS, Jordan CT, DeRyckere D, Graham DK

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2018

#### Brazilian journal of medical and biological research = Revista brasileira de pesquisas medicas e biologicas

#### PD-1/PD-L1 regulates Treg differentiation in pregnancy-induced hypertension.

"25-5982 was used in Flow cytometry to study the relationship between PD-1/PD-L1 and regulatory T cell differentiation in pregnancy-induced hypertension."

Authors: Jiang L, Tang C, Gong Y, Liu Y, Rao J, Chen S, Qu W, Wu D, Lei L, Chen L

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2018

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

## More applications with references on thermofisher.com

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