

CD274 (PD-L1, B7-H1) Monoclonal Antibody (MIH1), PE-eFluor™ 610, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE-eFluor™ 610, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	MIH1
Conjugate	PE-eFluor™ 610
Excitation/Emission Max	565/606 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2688233

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	22 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-diluted and tested by flow cytometric analysis of normal human peripheral blood cells. This may 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.

PE-eFluor™ 610 can be excited with laser lines from 488-561 nm and emits at 607 nm. We recommend using a 610/20 band pass filter (equivalent to PE-Texas Red™). Please make sure that your instrument is capable of detecting this fluorochrome.

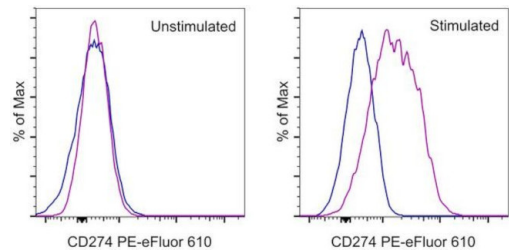
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 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:** 607 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-eFluor™ 610, eBioscience™



CD274 (PD-L1, B7-H1) Antibody (61-5983-42) in Flow
Staining of unstimulated (left) or PHA-stimulated (right) normal human peripheral blood cells with Mouse IgG1 K Isotype Control PE-eFluor® 610 (Product # 61-4714-82) (blue histogram) or Anti-Human CD274 (B7-H1) PE-eFluor® 610 (purple histogram). Viable cells in the lymphocyte gate, as determined by Fixable Viability Dye eFluor® 780 (Product # 65-0865-14), were used for analysis.

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Western Blot (1)

<p>Cancers</p> <p>Microbe-Mediated Activation of Toll-like Receptor 2 Drives PDL1 Expression in HNSCC.</p> <p>"Published figure using CD274 (PD-L1, B7-H1) monoclonal antibody (Product # 61-5983-42) in Western Blot"</p> <p>Authors: Mann JE,Ludwig ML,Kulkarni A,Scheftz EB,Murray IR,Zhai J,Gensterblum-Miller E,Jiang H,Brenner JC</p>	<p>Year 2021</p>
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Immunohistochemistry (1)

<p>Biomedicines</p> <p>Concomitant High Apoptosis Inhibitor of Macrophage (AIM) and Low Prostate-Specific Antigen (PSA) Indicates Activated T Cell-Mediated Anticancer Immunity, Enhance Sensitivity to Pembrolizumab, and Elicit Good Prognosis in Prostate Cancer.</p> <p>"Published figure using CD274 (PD-L1, B7-H1) monoclonal antibody (Product # 61-5983-42) in Immunohistochemistry"</p> <p>Authors: Bamodu OA,Wang YH,Yeh CT,Ho CH,Chiang YT,Kao WT,Liu CH,Wu CC</p>	<p>Year 2021</p>
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Flow Cytometry (22)

<p>Frontiers in immunology</p> <p>GM-CSF, Flt3-L and IL-4 affect viability and function of conventional dendritic cell types 1 and 2.</p> <p>"Published figure using CD274 (PD-L1, B7-H1) monoclonal antibody (Product # 61-5983-42) in Flow Cytometry"</p> <p>Authors: Lellahi SM,Azeem W,Hua Y,Gabriel B,Paulsen Rye K,Reikvam H,Kalland KH</p>	<p>Year 2023</p>
<p>International journal of molecular sciences</p> <p>NKp44-Derived Peptide Used in Combination Stimulates Antineoplastic Efficacy of Targeted Therapeutic Drugs.</p> <p>"Published figure using CD274 (PD-L1, B7-H1) monoclonal antibody (Product # 61-5983-42) in Flow Cytometry"</p> <p>Authors: Iraqi M,Bolel P,Sarkar R,Bhattacharya B,Abu Ahmad M,Edri A,Roisman LC,Elkabets M,Shalata W,Peled N, Porgador A</p>	<p>Year 2022</p>

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