

# CD275 (B7-H2) Monoclonal Antibody (MIH12), PE, 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), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	MIH12
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_10853668

Applications	Tested Dilution	Publications
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	11 Publications
Functional Assay (FN)	-	1 Publication

## Product Specific Information

**Description:** The MIH12 monoclonal antibody reacts with human B7RP-1, also known as B7h, B7-H2, GL50 and ICOS Ligand. B7RP-1, a member of the B7 family, has a predicted molecular weight of approximately 40 kDa and belongs to the Ig superfamily. Human B7RP-1 is expressed by activated monocytes/macrophages. B7RP-1 binds to the ICOS molecule (AILIM, CRP-1) expressed by activated T cells. The interaction of ICOS/B7RP-1 plays an important role in the T cell costimulation pathway.

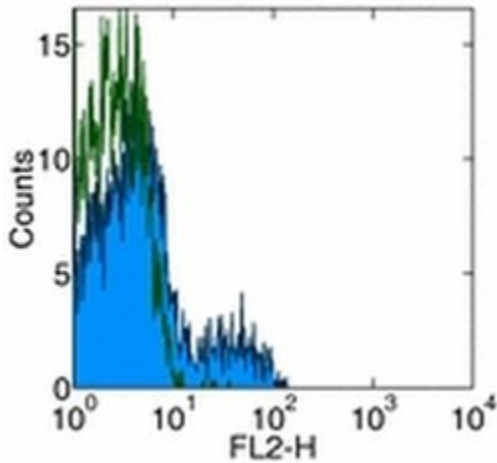
**Applications Reported:** The MIH12 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This MIH12 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood monocyte-derived dendritic cells. This can be used at 5 µL (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.

**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 CD275 (B7-H2) Monoclonal Antibody (MIH12), PE, eBioscience™



### CD275 (B7-H2) Antibody (12-5889-42) in Flow

Staining of normal human peripheral blood monocyte-derived dendritic cells with Mouse IgG1 K Isotype Control PE (open histogram) (Product # 12-4714-81) or Anti-Human CD275 (B7-H2) PE (filled histogram). Total viable cells were used for analysis.

[View more figures on thermofisher.com](#)

### 13 References

#### Immunohistochemistry (Frozen) (1)

Scandinavian journal of immunology

##### Expression and regulation of human CD275 on endothelial cells in healthy and inflamed mucosal tissues.

Authors: Youngnak-Piboonratanakit P, Tsushima F, Otsuki N, Igarashi H, Omura K, Azuma M

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2006

#### Flow Cytometry (11)

eLife

##### Cytomegalovirus restricts ICOSL expression on antigen-presenting cells disabling T cell co-stimulation and contributing to immune evasion.

"Published figure using CD275 (B7-H2) monoclonal antibody (Product # 12-5889-42) in Flow Cytometry"

Authors: Angulo G, Zeleznjak J, Martínez-Vicente P, Puñet-Ortiz J, Hengel H, Messerle M, Oxenius A, Jonjic S, Krmpotic A, Engel P, Angulo A

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2021

Frontiers in immunology

##### Targeting the Human T-Cell Inducible COStimulator Molecule with a Monoclonal Antibody Prevents Graft-vs-Host Disease and Preserves Graft vs Leukemia in a Xenograft Murine Model.

"12-5889 was used in Flow cytometry/Cell sorting to determine the role of monoclonal antibody to human ICOS in costimulatory signalling to human T cells."

Authors: Burlion A, Brunel S, Petit NY, Olive D, Marodon G

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2019

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

#### Functional Assay (1)

## Expression and regulation of human CD275 on endothelial cells in healthy and inflamed mucosal tissues.

Authors: Youngnak-Piboonratanakit P, Tsushima F, Otsuki N, Igarashi H, Omura K, Azuma M

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2006

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