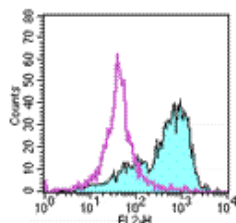


Anti-Human CD273 (B7-DC) Functional Grade Purified

Catalog Number: 16-5888

Also Known As: B7DC, PDCD1LG2, Btdc, PDL2, PD-L2, PDCD1L2

RUO: For Research Use Only



Staining of *in vitro* derived human dendritic cells with 0.25 µg of Mouse IgG1 Isotype Control Functional Grade Purified (cat.16-4714) (open histogram) or 0.25 µg of Anti-Human CD273 (B7-DC) Functional Grade Purified followed by Anti-Mouse IgG Biotin (cat.13-4013) and Streptavidin PE (cat.12-4317) (filled histogram). Total viable cells were used for analysis.

Product Information

Contents: Anti-Human CD273 (B7-DC) Functional Grade Purified

Catalog Number: 16-5888

Clone: MIH18

Concentration: 1 mg/ml

Host/Isotype: Mouse IgG1, κ

Handling Conditions: Use in sterile environment.

Endotoxin Level: Less than 0.001 ng/ug antibody, as determined by the LAL assay.

Formulation: aqueous buffer, no sodium azide



Temperature Limitation: Store at 2-8°C.



Batch Code: Refer to Vial



Use By: Refer to Vial

Description

The MIH18 monoclonal antibody reacts with human B7-DC, also known as PD-L2. B7-DC, a recently identified member of the B7 family, has a predicted molecular weight of approximately 25 kDa and belongs to the Ig superfamily. B7-DC is primarily expressed by subpopulations of dendritic cells and monocytes/macrophages. Although B7-DC has structural and sequence similarities to the B7 family, it does not bind CD28/CTLA-4, rather it is a ligand for PD-1. The interactions between PD-1 and B7-DC/PD-L2 have been reported to be involved in costimulation or suppression of T cell proliferation depending on state of cellular activation. MIH18 is a useful tool for studies to elucidate the exact function of B7-DC/PD-L2 in APC/T cell interaction and to characterize the expression pattern of this molecule in humans. MIH18 is a blocking antibody.

Applications Reported

This MIH18 antibody has been reported for use in flow cytometric analysis and functional assays.

Applications Tested

The MIH18 antibody has been tested by flow cytometric analysis of mature dendritic cells and human peripheral blood leukocytes. This can be used at less than or equal to 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Pfistershammer K, Klauser C, Pickl WF, Stockl J, Leitner J, Zlabinger G, Majdic O, Steinberger P. No evidence for dualism in function and receptors: PD-L2/B7-DC is an inhibitory regulator of human T cell activation. *Eur J Immunol.* 2006 May;36(5):1104-13. (MIH18, FA PubMed)

Youngnak-Piboonratanakit P, Tsushima F, Otsuki N, Igarashi H, Machida U, Iwai H, Takahashi Y, Omura K, Yokozeki H, Azuma M. 2004. The expression of B7-H1 on keratinocytes in chronic inflammatory mucocutaneous disease and its regulatory role. *Immunol Lett.* 15;94(3):215-22. (MIH18, IHC frozen)

Related Products

11-4011 Anti-Mouse IgG FITC

11-4317 Streptavidin FITC

12-4317 Streptavidin PE

13-4013 Anti-Mouse IgG Biotin (Polyclonal)

16-4714 Mouse IgG1 K Isotype Control Functional Grade Purified
17-4317 Streptavidin APC

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