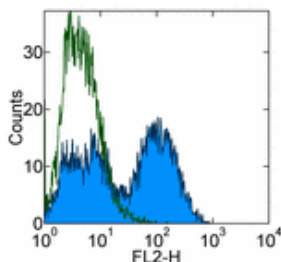


Anti-Mouse CD273 (B7-DC) PE

Catalog Number: 12-9972

Also Known As: B7DC, PD-L2, PDL-2, PDL2

RUO: For Research Use Only



Staining of in vitro bone marrow-derived dendritic cells from BALB/c mice with 0.125 µg of Rat IgG2a κ Isotype Control PE (cat. 12-4321) (open histogram) or 0.06 µg of Anti-Mouse CD273 (B7-DC) PE (filled histogram). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse CD273 (B7-DC) PE

REF Catalog Number: 12-9972

Clone: 122

Concentration: 0.2 mg/ml

Host/Isotype: Rat IgG2a, κ

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer



Temperature Limitation: Store at 2-8°C. Do not freeze. Light sensitive material.



Batch Code: Refer to Vial



Use By: Refer to Vial



Caution, contains Azide

Description

The 122 monoclonal antibody reacts with mouse 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. The mouse B7-DC has a short cytoplasmic tail (4aa). B7-DC is primarily expressed by subpopulations of dendritic cells and monocytes/macrophages in the mouse. 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. 122 has been demonstrated to block binding of TY25 (Cat. No. 14-5986), another mAb specific for mouse B7-DC.

Applications Reported

122 has been reported for use in flow cytometric analysis.

Applications Tested

The 122 antibody has been tested by flow cytometric analysis of mouse dendritic cell suspensions and mouse B7-DC transfected cells. 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Ishida M, Iwai Y, Tanaka Y, Okazaki T, Freeman GJ, Minato N, Honjo T. 2002. Differential expression of PD-L1 and PD-L2, ligands for an inhibitory receptor PD-1, in the cells of lymphohematopoietic tissues. *Immunol Lett.* 84(1):57-62. Carter L, Fouser LA, Jussif J, Fitz L, Deng B, Wood CR, Collins M, Honjo T, Freeman GJ, Carreno BM. 2002. PD-1:PD-L inhibitory pathway affects both CD4(+) and CD8(+) T cells and is overcome by IL-2. *Eur J Immunol.* 32(3):634-43.

Related Products

12-4321 Rat IgG2a K Isotype Control PE

12-5986 Anti-Mouse CD273 (B7-DC) PE (TY25)

13-5986 Anti-Mouse CD273 (B7-DC) Biotin (TY25)

14-5986 Anti-Mouse CD273 (B7-DC) Purified (TY25)

16-5986 Anti-Mouse CD273 (B7-DC) Functional Grade Purified (TY25)

