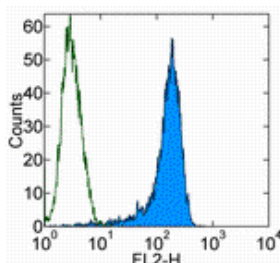


Anti-Mouse CD273 (B7-DC) Functional Grade Purified

Catalog Number: 16-5986

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

RUO: For Research Use Only



Staining of mouse B7-DC-transfected L5178Y cells with 0.25 ug of Rat IgG2a Isotype Control Functional Grade Purified (cat. 16-4321) (open histogram) or 0.125 ug of Anti-Mouse CD273 (B7-DC) Functional Grade Purified (filled histogram) followed by Anti-Rat IgG Biotin (cat. 13-4813) and Streptavidin PE (cat. 12-4312). Total viable cells were used for analysis.

Product Information

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

REF Catalog Number: 16-5986

Clone: TY25

Concentration: 1 mg/mL

Host/Isotype: Rat IgG2a, kappa


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 TY25 monoclonal antibody reacts with mouse B7-DC/PD-L2. B7-DC, a member of the B7 family, has a predicted molecular weight of ~25 kDa and belongs to the Ig superfamily. The mouse B7-DC has a short cytoplasmic tail (4aa). B7-DC is primarily expressed by sub-populations of dendritic cells, monocytes and macrophages. Although B7-DC has structural and sequence similarities to the B7 family, it does not bind CD28/CTLA-4, but binds 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. TY25 is a useful tool to study the exact function of B7-DC/PD-L2 in APC/T cell interaction and to characterize the expression pattern of this molecule in mouse.

Applications Reported

The TY25 antibody has been reported for use in flow cytometric analysis. It has also been reported for inhibition of ligand binding.

Applications Tested

The TY25 antibody has been tested by flow cytometric analysis of mouse splenocyte suspensions and B7-DC transfected cells. This can be used at less than or equal to 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

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Related Products

11-4811 Anti-Rat IgG FITC

13-4813 Anti-Rat IgG Biotin (Polyclonal)

16-4321 Rat IgG2a K Isotype Control Functional Grade Purified

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