

PE/Dazzle™ 594 anti-mouse CD273 (B7-DC, PD-L2)

Catalog # / Size: 1136080 / 100 µg
1136075 / 25 µg

Clone: TY25

Isotype: Rat IgG2a, κ

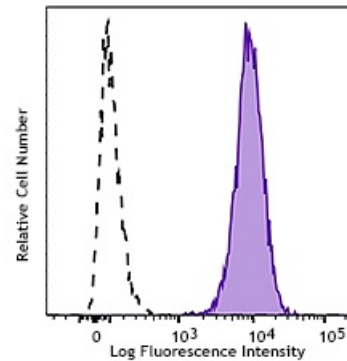
Immunogen: Mouse B7-DC transfected cell line

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with PE/Dazzle™ 594 under optimal conditions. The solution is free of unconjugated PE/Dazzle™ 594 and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.2 mg/ml



Mouse B7-DC transfected BHK cells were stained with CD273 (clone TY25) PE/Dazzle™ 594 (filled histogram) or rat IgG2a, κ PE/Dazzle™ 594 isotype control (open histogram).

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

* PE/Dazzle™ 594 has a maximum excitation of 566 nm and a maximum emission of 610 nm.

Application Notes: Additional reported applications (for the relevant formats) include: immunoprecipitation¹, Western blotting^{1,6}, blocking^{2,4,5} of PD-1 mediated interactions, and immunohistochemistry of acetone-fixed frozen sections³.

- Application References:**
1. Shin T, *et al.* 2003. *J. Exp. Med.* 198:31.
 2. Liu X, *et al.* 2003. *J. Exp. Med.* 197:1721.
 3. Carreno BM, *et al.* 2002. *Annu. Rev. Immunol.* 20:29.

Description: B7-DC is also called programmed death ligand 2 (PDL2). It has recently been clustered as CD273. This ligand is a 42 kD member of the immunoglobulin receptor superfamily expressed on a subset of dendritic cells, liver and a small subset of macrophages as well as a few transformed cell lines. CD273 has been reported to be stimulatory on dendritic cells when cross-linked and to inhibit T cell activation upon engaging the PD-1 receptor. CD273 has also been reported to bind to an alternative receptor and to mediate T cell activation through such non-PD1 mediated interactions. The TY25 antibody has been reported to be useful for blocking PD-1 mediated interactions.

- Antigen References:**
1. Shin T, *et al.* 2003. *J. Exp. Med.* 198:31.
 2. Liu X, *et al.* 2003. *J. Exp. Med.* 197:1721.
 3. Carreno BM, *et al.* 2002. *Annu. Rev. Immunol.* 20:29.

