SONY

Product Data Sheet

Biotin anti-mouse CD273 (B7-DC, PD-L2)

Catalog # / Size: 1136015 / 50 µg

Clone: TY25

Isotype: Rat IgG2a, κ

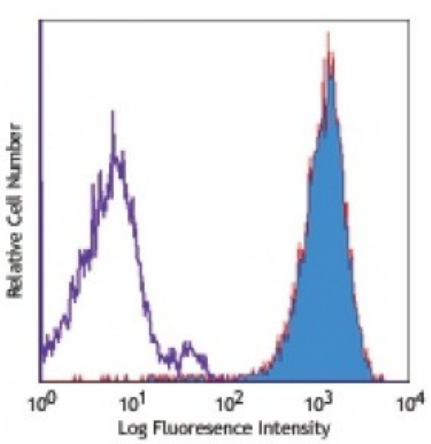
Immunogen: Mouse B7-DC transfected cell line

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.

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

Concentration: 0.5



mB7-DC transfected cells stained with biotinylated TY25, followed by Sav-PE

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 microg per 10^6 cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

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. The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 107208).

Application References:

1. Yamazaki T, *et al.* 2002. *J. Immunol.* 169:5538. (FC, IP, WB)
2. Ansari MJI, *et al.* 2003. *J. Exp. Med.* 198:63. (Block)
3. Salama AD, *et al.* 2003. *J. Exp. Med.* 198:71. (IHC)
4. Matsumoto K, *et al.* 2004. *J. Immunol.* 172:2530. (FC, Block)
5. Yamazaki T, *et al.* 2005. *J. Immunol.* 175:1586. (Block)
6. Meng Q, *et al.* 2006. *Invest Opthalmol Vis Sci.* 47:444. (WB) PubMed
7. del Rio ML, *et al.* 2011. *Transpl. Int.* 24:501. (FC) PubMed

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.