

**PE anti-mouse CD273 (B7-DC, PD-L2)**

**Catalog # / Size:** 1136025 / 50 µg  
1136030 / 200 µg

**Clone:** TY25

**Isotype:** Rat IgG2a, κ

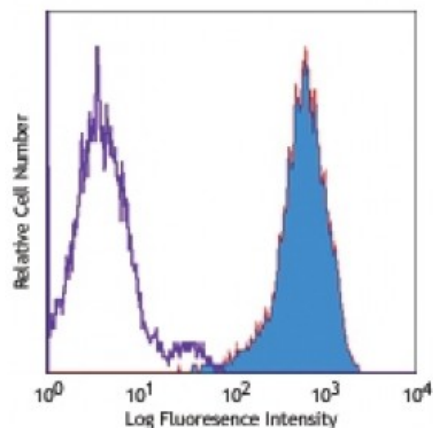
**Immunogen:** Mouse B7-DC transfected cell line

**Reactivity:** Mouse

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

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

**Concentration:** 0.2



mB7-DC transfected cells stained with TY25 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 ≤1.0 microg per million 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: immunoprecipitation<sup>1</sup>, Western blotting<sup>1,6</sup>, blocking<sup>2,4,5</sup> of PD-1 mediated interactions, and immunohistochemistry of acetone-fixed frozen sections<sup>3</sup>. 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 Ophthalmol Vis Sci.* 47:444. (WB) [PubMed](#)
7. del Rio ML, *et al.* 2011. *Transpl. Int.* 24:501. (FC) [PubMed](#)
8. Sugita S, *et al.* 2013. *Invest Ophthalmol Vis Sci.* 54:3240. [PubMed](#)
9. Wong TW, *et al.* 2014. *J. Immunol.* 192:3548. [PubMed](#)
10. Ochiai S, *et al.* 2014. *J Immunol.* 193:2504. [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** 1. Shin T, *et al.* 2003. *J. Exp. Med.* 198:31.  
**References:** 2. Liu X, *et al.* 2003. *J. Exp. Med.* 197:1721.  
3. Carreno BM, *et al.* 2002. *Annu. Rev. Immunol.* 20:29.