

PE/Cy7 anti-human CD273 (B7-DC, PD-L2)

Catalog # / Size: 2327560 / 100 tests
2327555 / 25 tests

Clone: MIH18

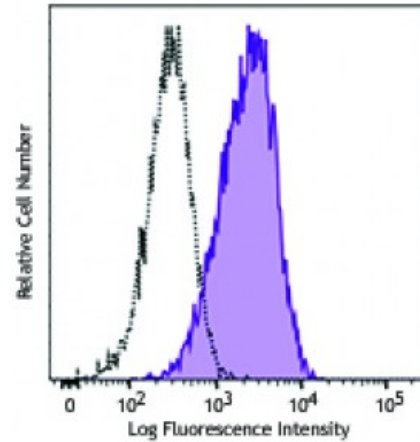
Isotype: Mouse IgG1, κ

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 421™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 421™ and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).

Concentration: Lot-specific



Human monocyte-derived dendritic cells were stained with CD273 (clone MIH18) PE/Cy7 (closed histogram) or mouse IgG1, κ PE/Cy7 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 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications (for the relevant formats) include: blocking^{4,5}, and immunohistochemistry in frozen sections² and paraffin-embedded formalin-fixed sections⁶. The LEAF™ purified antibody (Endotoxin <0.1 EU/microg, Azide-free, 0.2 μ m filtered) is recommended for functional assays (Cat. No. 345504).

Application References: 1. Joller N, *et al.* 2010. *J. Immunol.* 186:1338.

Description: CD273, known as B7-DC, is also called programmed death ligand 2 (PDL2). This ligand is a 25 kD type I transmembrane protein and a member of B7 family within the immunoglobulin receptor superfamily and is 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. Clone MIH18 is reported to block PDL2.

Antigen References: 1. Levin SD, *et al.* 2011. *Eur. J. Immunol.* 41:902.
2. Yu X, *et al.* 2009. *Nat. Immunol.* 10:48.
3. Stanietsky N, *et al.* 2009. *P. Natl. Acad. Sci. USA* 106:17858.