SONY

# Product Data Sheet

## Alexa Fluor® 647 anti-human CD273 (B7-DC, PD-L2)

**Catalog # / Size:** 2327570 / 100 tests
2327565 / 25 tests

**Clone:** MIH18

**Isotype:** Mouse IgG1, κ

**Immunogen:** Human B7-DC transfected cells

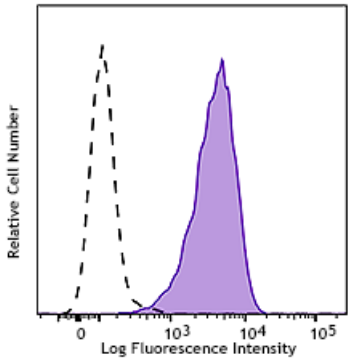
**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 647 under optimal conditions.

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

**Workshop Number:** HCDM listed

**Concentration:** Lot-specific



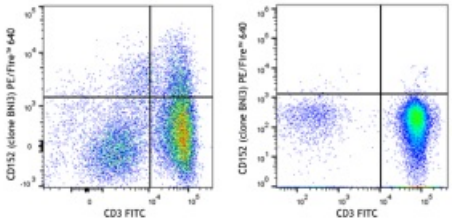

Human monocyte-derived dendritic cells were stained with CD273 (Clone MIH18) Alexa Fluor® 647 (filled histogram) or mouse IgG1, κ isotype control (open histogram).

## 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 µl per million cells or 5 µl per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633 nm / 635 nm.




**Application Notes:** Additional reported applications (for the relevant formats) include: blocking[4,5], and immunohistochemistry in frozen sections[2] and paraffin-embedded formalin-fixed sections[6].

**Application References:**


1. Youngnak-Piboonratankit P, *et al.* 2004. *Immunol. Lett.* 94:215. (IHC, IF)
2. Ohigashi Y, *et al.* 2005. *Clin. Cancer. Res.* 8:2947. (IHC, IF)
3. Hobo W, *et al.* 2010. *Blood* 25:4501. (FC)
4. Nagamatsu T, *et al.* 2009. *Hum. Reprod.* 24:3160. (Block)
5. Alvarez IB, *et al.* 2010. *J. Infect. Dis.* 202:524. (Block)
6. Taube JM, *et al.* 2014. *Clin. Cancer Res.* 19:5064. (IHC) PubMed



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**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. Carreno BM, *et al.* 2002. *Annu. Rev. Immunol.* 20:29.
2. Ohigashi Y, *et al.* 2005. *Clin. Cancer. Res.* 8:2947.

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