

**PE anti-mouse CD274 (B7-H1, PD-L1)**

**Catalog # / Size:** 1368055 / 25 µg  
1368060 / 100 µg

**Clone:** MIH6

**Isotype:** Rat IgG2a, λ

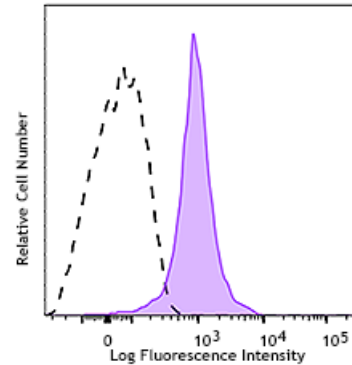
**Immunogen:** Mouse PD-L1-transfected cells

**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions.

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

**Concentration:** 0.2 mg/mL



C57BL/6 mouse splenocytes were stained with CD274 (B7-H1, PD-L1) (clone MIH6) PE (filled histogram) or rat IgG2a, κ PE 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.

**Application Notes:** mAb MIH6 blocks the binding of mouse PD-L1 to PD-1 (CD279)

- Application References:**
1. Gassner FJ, *et al.* 2015. *Br J Haematol.* 170:515 (Block)
  2. Haile ST, *et al.* 2013. *J Immunol.* 191:2829 (FC)
  3. Hirahara K, *et al.* 2012. *Immunity.* 36:1017 (Block)
  4. Fife BT, *et al.* 2009. *Nat Immunol.* 10:1185 (Block)
  5. Kanai T, *et al.* 2003. *J Immunol.* 171:4156 (Block)

**Description:** CD274, also known as B7-H1 or programmed death ligand 1 (PD-L1), is a 40 kD type I transmembrane protein and a member of the B7 family within the immunoglobulin receptor superfamily. It is expressed on T cells, B cells, NK cells, dendritic cells, IFN-γ activated endothelial cells, and monocytes. B7-H1 is one of the ligands of PD-1. The interaction of B7-H1 with PD-1 plays an important role in the inhibition of T cell responses. Other studies have shown that B7-H1 is able to costimulate T cell growth and cytokine production. CD274 is involved in costimulation essential for T cell proliferation and production of IL-10 and IFN-γ, in an IL-2-dependent and a PD-1-independent manner. Its interaction with PD-1 inhibits T cell proliferation and cytokine production.

- Antigen References:**
1. Dorand RD. 2016. *Science.* 353:399.
  2. Khan AR, *et al.* 2015. *Nat Commun.* 6:5997.
  3. Kiyasu J, *et al.* 2015. *Blood.* 126:2193
  4. Herold M, *et al.* 2015. *J Immunol.* 195:3584
  5. Buddhisa S, *et al.* 2015. *J Immunol.* 194:4413

