SONY

Product Data Sheet

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

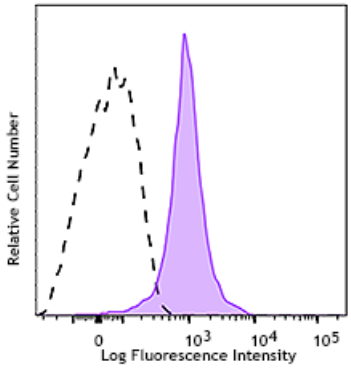
Reactivity: Mouse

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

Workshop Number: IV T-186

Concentration: 0.2



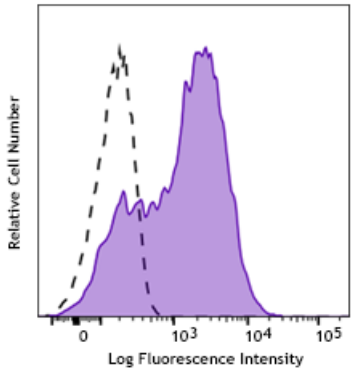
C57BL/6 mouse splenocytes were stained with CD274 (B7-H1, PD-L1) (clone MIH6) PE (filled histogram) or rat IgG2a, κ PE isotype control (open histogram).

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)



Peripheral blood mononuclear cells were stimulated with PHA for 3 days and stained with anti-human CD279 (PD-1) (clone A17188A) PE (filled histogram) or mouse IgG2b, κ PE isotype control (open histogram).

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)

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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

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