SONY

Product Data Sheet

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

Catalog # / Size: 1377020 / 100 µg
1377015 / 25 µg

Clone: MIH7

Isotype: Rat IgG2a, λ

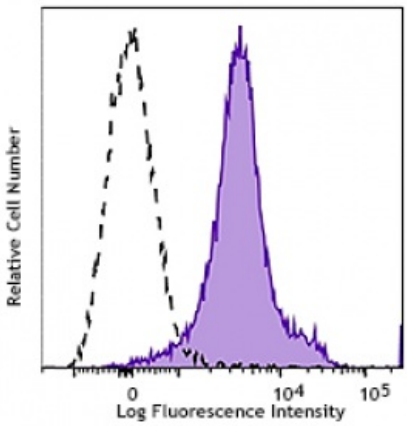
Immunogen: Mouse PD-L1 transfectant

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 mg/ml



C57BL/6 mouse splenocytes were stained with CD274 (clone MIH7, filled histogram) PE, or rat IgG2b, κ PE isotype control (open histogram).

Applications:

Applications: Neutralization

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 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: The antibody MIH7 does not block other CD274 antibodies: clone MIH6 and 10F.9G2.

Application 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*. 195:3

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

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3. Kiyasu J, *et al*. 2015. *Blood*. 126:2193

4. Herold M, *et al*. 2015 *J Immunol*. 195:3