SONY

Product Data Sheet

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

Catalog # / Size: 1377010 / 500 µg

Clone: MIH7

Isotype: Rat IgG2a, λ

Immunogen: Mouse PD-L1 transfectant

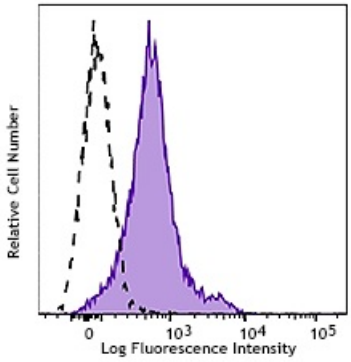
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography.

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

Workshop Number: V B-CD73.3

Concentration: 0.5

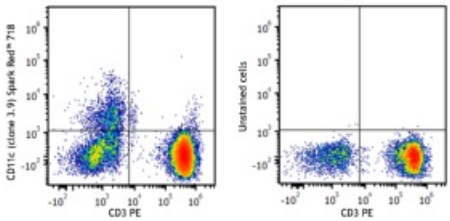


C57BL/6 mouse splenocytes were stained with Purified CD274 (clone MIH7, filled histogram) or purified rat IgG2a, κ isotype control (open histogram), followed by anti-Rat IgG PE.

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 ≤ 1.0 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.



Human peripheral blood lymphocytes were stained with anti-human CD3 PE and anti-human CD11c (clone 3.9) Spark Red™ 387 (left) or stained with anti-human CD3 PE only (right).

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

Additional reported applications (for the relevant formats) include: Blocking (Block)

Application References:

1. Sharma MD, et al. 2007. J Clin Invest. 117:2570-82. (Block)
2. Sharma MD, et al. 2015. Sci Adv. 1:e1500845. (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.

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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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