Brilliant Violet 421™ anti-human CD274 (B7-H1, PD-L1)

Catalog # / Size: 2472535 / 25 tests

2472540 / 100 tests

Clone: MIH3

Isotype: Mouse IgG1, κ

Immunogen: Human PD-L1-transfected cells.

Reactivity: Human

Preparation: The antibody was purified by affinity

chromatography and conjugated with Brilliant Violet 421™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 421™ and

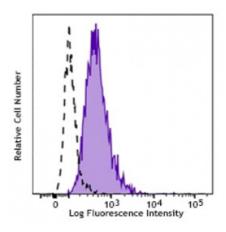
unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide and BSA

(origin USA).

Concentration: Lot-specific



Human PBMCs were activated for 3 days with PHA and then stained with CD274 (clone MIH3) Brilliant Violet 421™ (filled histogram) or mouse IgG1, κ Brilliant Violet 421™ 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 μ l per million cells or 5 μ l per 100 μ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 421^{TM} excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421^{TM} is a trademark of Sirigen Group Ltd.

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Application Notes:

Additional reported applications (for the relevant formats) include blocking^{1, 2}.

Clone MIH3 blocks the binding of PD-L1 with PD-1, but did not block the binding of PD-L1 with B7-1 (CD80).

Application References:

1. Khan AR, et al. 2015. Nat Commun. 6:5997.

Kiyasu J, et al. 2015. Blood. 126:2193.
Herold M, et al. 2015. | Immunol. 195:3584.

4. Buddhisa S, et al. 2015. J Immun

Description: CD274, also known as PD-L1 and B7-H1, is type I transmembrane glycoprotein

that serves as a ligand for CD279 (PD-1). This interaction is believed to regulate

the balance between the stimulatory and inhibitory signals needed for responses to microbes and maintenance of self-tolerance. CD274 is involved in the costimulation of T cell proliferation and IL-10 and IFN- γ production in an IL-2-dependent and CD279-independent manner. Conflicting data has shown that CD274 can inhibit T cell proliferation and cytokine production, and alternatively, enhance T cell activation. Other studies suggest that CD274 may signal bidirectionally, raising interesting implications for its expression in a wide variety of cell types, including T and B cells, antigen-presenting cells, and non-hematopoietic cells.

Antigen References:

- 1. Khan AR, et al. 2015. Nat Commun. 6:5997.
- 2. Kiyasu J, et al. 2015. Blood. 126:2193.
- 3. Herold M, et al. 2015. J Immunol. 195:3584.
- 4. Buddhisa S, et al. 2015. J Immun