Brilliant Violet 421™ anti-human CD161

Catalog # / Size: 2299565 / 25 tests

2299570 / 100 tests

Clone: HP-3G10

Isotype: Mouse IgG1, κ

Immunogen: Human NK 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

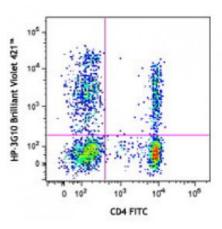
unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide and BSA

(origin USA).

Concentration: Lot-specific



Human peripheral blood lymphocytes stained with CD4 FITC and CD161 (clone HP-3G10) Brilliant Violet 421™ (top) or mouse IgG1 κ Brilliant Violet 421™ isotype control (bottom).

Applications:

Applications: Flow Cytometry

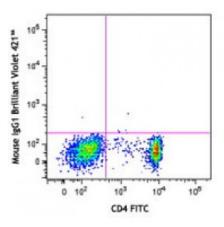
Recommended

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 microL per million cells or 5 microL per 100 microL 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: inhibition of cytokine production and Western blotting under nonreducing conditions.

Application References:

- 1. Gumá M, et al. 2004. *Blood* 104:3664.
- 2. Exley M, et al. 1998. J. Exp. Med. 188:867.
- 3. Marquez C, et al. 1998. Blood 91:2760.

Description:

CD161 is a type II transmembrane glycoprotein, also known as NKR-P1A, that is expressed as a 40-44 kD homodimer. It is a member of the C-type lectin superfamily. CD161 is expressed on a majority of NK cells, NKT cells, and subsets of peripheral T cells and CD3⁺ thymocytes. It has been reported that Th17 cells are a subpopulation of CD4⁺CD161⁺CCR6⁺ cells. While the biological function of CD161 is not clear, it has been suggested to serve either as a stimulatory receptor or to inhibit NK cell-mediated cytotoxicity and cytokine production. LLT-1 (lectin-like transcript-1, also named as osteoclast inhibitory lectin or CLEC2D) is the ligand of CD161.

Antigen References:

- 1. Takahashi T, et al. 2006. J. Immunol. 176:211.
- 2. Cosmi L, et al. 2008. J. Exp. Med. 205:1903.
- 3. Aldemir H, et al. 2005. J. Immunol. 175:7791.
- 4. Rosen DB, et al. 2008. <