## Alexa Fluor® 488 anti-human CD161

Catalog # / Size: 2299615 / 25 tests

2299620 / 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

Alexa Fluor® 488 under optimal

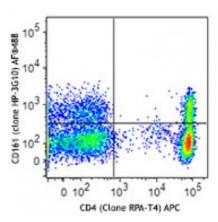
conditions.

Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide and

0.2% (w/v) BSA (origin USA).

**Concentration:** Lot-specific



Human peripheral blood lymphocytes were stained with CD4 APC and CD161 (clone HP-3G10) Alexa Fluor® 488 (top) or mouse IgG1, κ Alexa Fluor® 488 isotype control (bottom).

105

103

0 102

103

CD4 (Clone RPA-T4) APC

1gG1, x AF6488 104

## **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.

\* Alexa Fluor® 488 has a maximum emission of 519 nm when it is excited at

488 nm.

**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<sup>+</sup> thymocytes. It has been reported that Th17 cells are a subpopulation of CD4<sup>+</sup>CD161<sup>+</sup>CCR6<sup>+</sup> 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. <