## **Brilliant Violet 785™ anti-human CD161**

Catalog # / Size: 2299650 / 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 785™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 785™ and

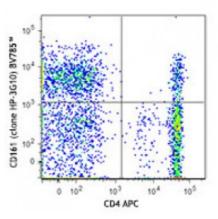
unconjugated antibody.

**Formulation:** Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide and BSA

(origin USA).

Concentration: Lot-specific



Human peripheral blood lymphocytes were stained with CD4 APC and CD161 (clone HP-3G10) Brilliant Violet 785™ (top) or mouse lgG1, κ Brilliant Violet 785™ 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 785™ excites at 405 nm and emits at 785 nm. The bandpass filter 780/60 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to

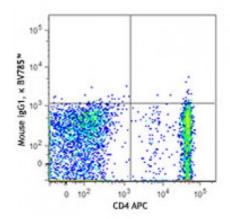
your instrument manual or manufacturer for support. Brilliant Violet 785™ is a trademark of Sirigen Group

Ltd.

Application Notes:

Additional reported applications (for the relevant formats) include: inhibition of cytokine production and Western blotting under nonreducing conditions.

**Application** 1. Gumá M, et al. 2004. *Blood* 104:3664.



**References:** 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. <