

Anti-Human CD161 BG Violet 450

Catalog Number :13711-40

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Clone: HP-3G10

Format/Conjugate: BG Violet 450

Concentration: 5 uL (0.5 ug)/test

Reactivity: Human

Laser: Violet (405nm)

Peak Emission: 450nm

Peak Excitation: 404nm

Filter: 450/50

Brightness (1=dim,5=brightest): 2

Isotype: Mouse IgG1, kappa

Formulation: Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, pH7.2.

Storage: Product should be kept at 2-8°C and protected from prolonged exposure to light.

Applications: FC

Description

The HP-3G10 monoclonal antibody specifically binds to an 80 kDa homodimer type II membrane glycoprotein from the C-type lectin superfamily, known as the human CD161 or NKR-P1A. CD161 is expressed on most natural killer cells, subsets of CD4+ and CD8+ T lymphocytes, γδ TCR T lymphocytes, a subset of CD3+ thymocytes, and especially on CD45RO+ T lymphocytes. Reports indicate that it may serve as a specific receptor for some natural killer cell targets and a possible stimulatory role.

BG Violet 450 conjugate is an alternative to the Pacific Blue, eFluor 450, or BD Horizon V450 dyes. It is excited by the violet (405 nm) laser, with a peak emission of 450nm.

Preparation & Storage

The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze. The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.

Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. The antibody can be used at less than or equal to 5 µL per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100 µL.

References

- 1.Márquez, C., Trigueros, C., Franco, J. M., Ramiro, A. R., Carrasco, Y. R., López-Botet, M., Toribio, M. L. (1998). Identification of a common developmental pathway for thymic natural killer cells and dendritic cells.;Blood,91(8), 2760-2771.
2. Cosmi, L., De Palma, R., Santarlasci, V., Maggi, L., Capone, M., Frosali, F., ... Annunziato, F. (2008). Human interleukin 17;producing cells originate from a CD161+ CD4+ T cell precursor.;The Journal of experimental medicine.;205(8), 1903-1916.
3. Exley, M., Porcelli, S., Furman, M., Garcia, J., Balk, S. (1998). CD161 (NKR-P1A) costimulation of CD1d-dependent activation of human T cells

