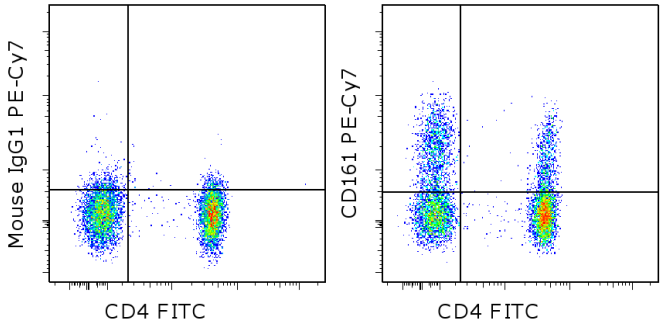
Anti-Human CD161 PE-Cyanine7

Catalog Number: 25-1619
Also known as: NKR-P1A, NKRP1A
RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of normal human peripheral blood cells with Anti-Human CD4 FITC (cat. 11-0048) and Mouse IgG1 K Isotype Control PE-Cyanine7 (cat. 25-4714) (left) or Anti-Human CD161 PE-Cyanine7 (right). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Human CD161 PE-Cyanine7
REF **Catalog Number:** 25-1619
Clone: HP-3G10
Concentration: 5 uL (0.25 ug)/test
Host/Isotype: Mouse IgG1

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C. Do not freeze. Light-sensitive material. This tandem dye is sensitive to photo-induced oxidation. Protect this vial from light during storage, handling & experimental procedures.
LOT **Batch Code:** Refer to vial
Use By: Refer to vial
Contains sodium azide

Description

This HP-3G10 monoclonal antibody reacts with CD161 (also known as NKR-P1A), a member of the C-type lectin superfamily. The human homologue of NK1.1 in C57BL/6 mice, CD161 is expressed on natural killer cells and is upregulated in response to IL-12. CD161 can also be detected on various T cell subsets, including memory/effector CD4+ T cells, CD8+ T cells, gamma delta TCR T cells, and a subset of CD3+ thymocytes. Finally, CD161 expression has been demonstrated on human Th17 CD4+ T cells. The function of this receptor is unclear although studies suggest a possible stimulatory role. Nevertheless, Lectin-like transcript-1 (LLT1), which is also known as osteoclast inhibitory lectin, has been identified as the ligand for CD161.

Applications Reported

This HP-3G10 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This HP-3G10 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.25 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test.

Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 uL cell sample + 100 uL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.ebioscience.com • info@ebioscience.com

Anti-Human CD161 PE-Cyanine7

Catalog Number: 25-1619
Also known as: NKR-P1A, NKRP1A
RUO: For Research Use Only. Not for use in diagnostic procedures.

References

Cossmi, L, et al. Human interleukin 17-producing cells originate from a CD161+CD4+ T cell precursor. J. Exp. Med. 2008; 205(8): 1903-16.

Rosen DB, Cao W, Avery DT, Tangye SG, Liu YJ, Houchins JP, Lanier LL. Functional consequences of interactions between human NKR-P1A and its ligand LLT1 expressed on activated dendritic cells and B cells. J. Immunol. 2008 May 15; 180(10):6508-17.

Márquez C, Trigueros C, Franco JM, Ramiro AR, Carrasco YR, López-Botet M, Toribio ML.Identification of a common developmental pathway for thymic natural killer cells and dendritic cells. Blood. 1998 Apr 15;91(8):2760-71. (HP-3G10, FC, Pubmed)

Related Products

11-0048 Anti-Human CD4 FITC (OKT4 (OKT-4))
25-4714 Mouse IgG1 K Isotype Control PE-Cyanine7 (P3.6.2.8.1)

Legal

Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.ebioscience.com • info@ebioscience.com