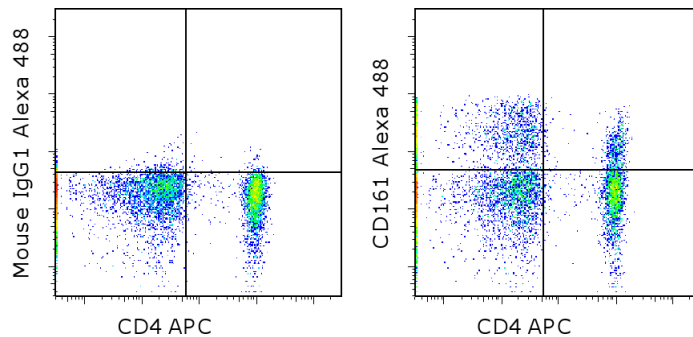


Anti-Human CD161 Alexa Fluor[®] 488

Catalog Number: 53-1619

Also known as: NKR-P1A

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



Staining of normal human peripheral blood cells with Anti-Human CD4 APC (cat. 17-0049) and Mouse IgG1 K Isotype Control Alexa Fluor[®] 488 (cat. 53-4714) (left) or Anti-Human CD161 Alexa Fluor[®] 488 (right). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Human CD161 Alexa Fluor[®] 488

REF **Catalog Number:** 53-1619

Clone: HP-3G10

Concentration: 5 μ L (0.25 μ g)/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.

Batch Code: Refer to vial

Use By: Refer to vial



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 μ L (0.25 μ g) per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test.

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-

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3G10, FC, Pubmed)

Related Products

17-0049 Anti-Human CD4 APC (RPA-T4)

53-4714 Mouse IgG1 K Isotype Control Alexa Fluor® 488 (P3.6.2.8.1)

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