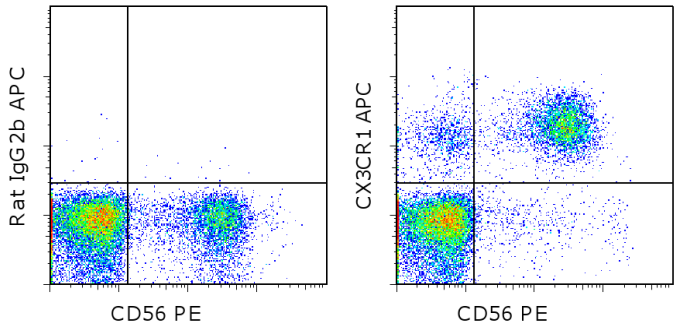
Anti-Human CX3CR1 APC

Catalog Number: 17-6099
Also known as: Chemokine C-X3-C receptor 1, V28
RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of normal human peripheral blood cells with Anti-Human CD56 (NCAM) PE (cat. 12-0567) and Rat IgG2b K Isotype Control APC (cat. 17-4031) (left) or Anti-Human CX3CR1 APC (right). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Human CX3CR1 APC
REF **Catalog Number:** 17-6099
Clone: 2A9-1
Concentration: 5 uL (0.125 ug)/test
Host/Isotype: Rat IgG2b, kappa

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.
LOT **Batch Code:** Refer to vial
Use By: Refer to vial
Contains sodium azide

Description

This 2A9-1 monoclonal antibody reacts with human CX3CR1, which is the receptor for fractalkine, a transmembrane chemokine of the CX3C family. CX3CR1 is a seven transmembrane G protein-coupled receptor expressed on CD16+ NK cells, T cells (e.g. CD8+, CD4+, and gamma/delta), and monocytes. In non-immune cells, CX3CR1 has been found on osteoclast precursors and microglia. Little to no CX3CR1 surface expression can be detected on B cells and granulocytes. Together, fractalkine and its receptor mediate cell-cell adhesion and chemotaxis of NK cells, T cells, and monocytes. The expression of CX3CR1 has also been correlated with high levels of intracellular perforin and granzyme B.

Applications Reported

This 2A9-1 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This 2A9-1 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.125 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.

References

Koizumi K, Saitoh Y, Minami T, Takeno N, Tsuneyama K, Miyahara T, Nakayama T, Sakurai H, Takano Y, Nishimura M, Imai T, Yoshie O, Saiki I. Role of CX3CL1/Fractalkine in Osteoclast Differentiation and Bone Resorption. J Immunol. 2009 Nov 18.

Nishimura M, Umehara H, Nakayama T, Yoneda O, Hieshima K, Kakizaki M, Dohmae N, Yoshie O, Imai T. Dual functions of fractalkine/CX3C ligand 1 in trafficking of perforin+/granzyme B+ cytotoxic effector lymphocytes that are defined by CX3CR1 expression. J Immunol. 2002 Jun 15;168(12):6173-80. (2A9-1, FC, Pubmed)

Imai T, Hieshima K, Haskell C, Baba M, Nagira M, Nishimura M, Kakizaki M, Takagi S, Nomiyama H, Schall TJ,

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Yoshie O. Identification and molecular characterization of fractalkine receptor CX3CR1, which mediates both leukocyte migration and adhesion. Cell. 1997 Nov 14;91(4):521-30.

Related Products
12-0567 Anti-Human CD56 (NCAM) PE (CMSSB)
12-9959 Anti-Human gamma delta TCR PE (B1.1)
17-4031 Rat IgG2b K Isotype Control APC

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