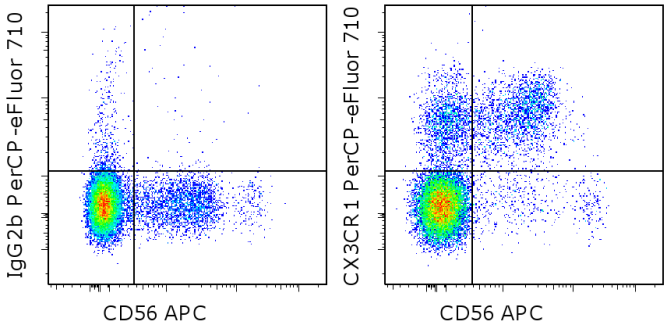
Anti-Human CX3CR1 PerCP-eFluor® 710

Catalog Number: 46-6099
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) APC (cat. 17-0567) and Rat IgG2b K Isotype Control PerCP-eFluor® 710 (cat. 46-4031) (left) or Anti-Human CX3CR1 PerCP-eFluor® 710 (right). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Human CX3CR1 PerCP-eFluor® 710
REF **Catalog Number:** 46-6099
Clone: 2A9-1
Concentration: 5 uL (0.25 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 (0.25 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.

PerCP-eFluor® 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.

Our testing indicates that PerCP-eFluor® 710 conjugated antibodies are stable when stained samples are exposed to freshly prepared 2% formaldehyde overnight at 4°C, but please evaluate for alternative fixation protocols.

Click here or contact eBioscience Technical Support for more information on eFluor™ Organic Dyes including PerCP-eFluor® 710.

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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, 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

17-0567 Anti-Human CD56 (NCAM) APC (CMSSB)
17-4724 Mouse IgG2a K Isotype Control APC
46-4031 Rat IgG2b K Isotype Control PerCP-eFluor® 710

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