

CX3CR1 Monoclonal Antibody (2A9-1), PerCP-eFluor™ 710, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), PerCP-eFluor™ 710, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	2A9-1
Conjugate	PerCP-eFluor™ 710
Excitation/Emission Max	482/708 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10717390

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	4 Publications

Product Specific Information

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 10⁵ to 10⁸ cells/test.

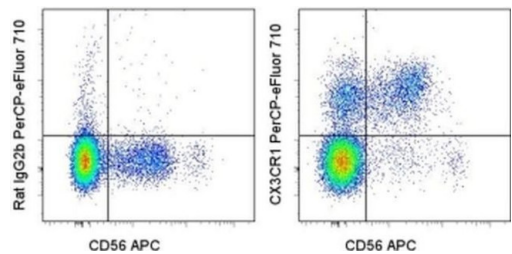
PerCP-eFluor® 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic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

Excitation: 488 nm; Emission: 710 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CX3CR1 Monoclonal Antibody (2A9-1), PerCP-eFluor™ 710, eBioscience™



CX3CR1 Antibody (46-6099-42) in Flow
Staining of normal human peripheral blood cells with Anti-Human CD56 (NCAM) APC (Product # 17-0567-42) and Rat IgG2b K Isotype Control PerCP-eFluor® 710 (Product # 46-4031-82) (left) or Anti-Human CX3CR1 PerCP-eFluor® 710 (right). Cells in the lymphocyte gate were used for analysis.

View more figures on thermofisher.com

4 References

Flow Cytometry (4)

Scientific reports	Year 2022
Distinct gene expression patterns for CD14++ and CD16++ monocytes in preeclampsia. "Published figure using CX3CR1 monoclonal antibody (Product # 46-6099-42) in Flow Cytometry" Authors: Vishnyakova P,Kuznetsova M,Poltavets A,Fomina M,Kiseleva V,Muminova K,Potapova A,Khodzhaeva Z,Pyregov A,Trofimov D,Elchaninov A,Sukhikh G,Fatkhudinov T	
Nature communications	Year 2018
Microglia innately develop within cerebral organoids. "Published figure using CX3CR1 monoclonal antibody (Product # 46-6099-42) in Flow Cytometry" Authors: Ormel PR,Vieira de Sá R,van Bodegraven EJ,Karst H,Harschnitz O,Sneeboer MAM,Johansen LE,van Dijk RE,Scheefhals N,Berdenis van Berlekom A,Ribes Martínez E,Kling S,MacGillavry HD,van den Berg LH,Kahn RS,Hol EM,de Witte LD,Pasterkamp RJ	

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