Human/Mouse CX3CR1 Alexa Fluor® 647-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF5825R
100 µg

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse CX3CR1 in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant mouse CX3CR1 Met1-Thr32, Leu92-Lys104, Thr169-Val196, Lys258-Leu274 Accession # Q9Z0D9
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

CyTOF-ready	Optimal dilution of this antibody should be experimentally determined.
Western Blot	Optimal dilution of this antibody should be experimentally determined.
Flow Cytometry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

CX3CR1 (CX_3C chemokine receptor 1; also fractalkine receptor, GPCR13 and V28) is a 40 kDa (predicted) member of the δ-group of rhodopsin GPCRs. It is expressed on astrocytes, microglia, macrophages, Th1 and Tc1 T cells, NK cells, mouse $Gr1^{lo}$ monocytes plus smooth muscle and mast cells. CX_3CR1 mediates adhesion to fractalkine, promotes avid binding of integrins to their ligands, and extends the life of monocytes. Mouse CX3CR1 is a 7-transmembrane protein that is 354 amino acids (aa) in length. It contains a 32 aa N-terminal extracellular region that shows no glycosylation, and a 56 aa C-terminal cytoplasmic domain. Over aa 1-32, 91-104, 169-196 and 258-274 collectively, mouse CX_3CR1 shares 96% and 77% aa identity with rat and human CX_3CR1, respectively.

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