

Anti-CX₃CR1 (EL) V28, CMKBRL1

CATALOG No.: PX166A SIZE: 100 µg
 PX166B SIZE: 0.5 mg

BACKGROUND:

CX₃CR1 is one of the chemokine receptors that are required as coreceptors for HIV infection. The genes encoding human, mouse, and rat CX₃CR1 were cloned and designated V28 and CMKBRL1, CX₃CR1, and RBS11, respectively, (1-4). The encoded seven transmembrane protein was recently identified as the receptor for a novel transmembrane molecule, fractalkine, and renamed CX₃CR1 (5). Recently, CX₃CR1 was found to serve as a coreceptor for HIV-1 and HIV-2 envelope fusion and virus infection, which can be inhibited by fractokine (6). CX₃CR1 mediates leukocyte migration and adhesion (5). CX₃CR1 is expressed in a variety of human tissues and cell lines (2).

SOURCE:

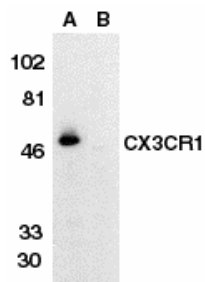
Rabbit anti-CX₃CR1 polyclonal antibody was raised against a peptide corresponding to amino acids 175 to 189 of human CX₃CR1 (1,2). The sequence is identical to that of rat CX₃CR1 and differs from that of mouse CX₃CR1 by one amino acid (3,4).

APPLICATION:

This polyclonal antibody can be used for detection of CX₃CR1 by Western blot at 1:500 dilution. THP-1 cell lysate can be used as positive control and an approximately 50 kDa band can be detected. For research use only.

STORAGE:

It is supplied as 100 µg of immunoaffinity chromatography purified IgG in 200 µl of PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.



Western blot analysis of CX₃CR1 in THP-1 cell lysate in the absence (lane A) or presence (lane B) of blocking peptide with anti-CX₃CR1 (EL) at 1:500 dilution.

RELATED PRODUCT:

Blocking peptide, 50 µg/250 µl, is available for competition studies.

THP-1 cell lysate, 200 µg/100 µl, is available for positive control.

REFERENCES:

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3. Combadiere C, Gao J, Tiffany HL, Murphy PM. Gene cloning, RNA distribution, and functional expression of mCX3CR1, a mouse chemotactic receptor for the CX3C chemokine fractalkine. *Biochem Biophys Res Commun* 1998;253:728-32
4. Harrison JK, Barber CM, Lynch KR. cDNA cloning of a G-protein-coupled receptor expressed in rat spinal cord and brain related to chemokine receptors. *Neurosci Lett* 1994;169:85-9
5. Imai T, Hieshima K, Haskell C, et al. Identification and molecular characterization of fractalkine receptor CX3CR1, which mediates both leukocyte migration and adhesion. *Cell* 1997;91:521-30
6. Combadiere C, Salzwedel K, Smith ED, et al. Identification of CX3CR1. A chemotactic receptor for the human CX3C chemokine fractalkine and a fusion coreceptor for HIV-1. *J Biol Chem* 1998;273:23799-804

CAUTION: NOT FOR USE IN HUMANS. FOR RESEARCH PURPOSES ONLY.



Cell Sciences, Inc.
 480 Neponset Street
 Bldg 12A
 Canton, MA 02021

Toll Free: 888-769-1246
 Phone: 781-828-0610
 Fax: 781-828-0542

E-mail: info@cellsciences.com
 Web Site: www.cellsciences.com