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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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CX3CR1(EL) (V28) (HIV and chemokine receptor). Rabbit Polyclonal Antibody
Anti-CX₃CR1 (V28, CMKBRL1) (Extracellular Loop); Beta chemokine receptor-like 1; Fractalkine receptor

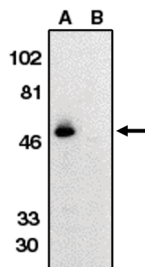
BACKGROUND

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).

IMMUNOGEN

Synthetic peptide corresponding to amino acids 175 to 189 of human CX₃CR1 receptor. This sequence is identical in rat and differs by one amino acid in mouse.

Western blot analysis using CX3CR1 (EL) antibody at 1 µg/ml on THP-1 cell lysate in the absence (A) and presence (B) of specific blocking peptide.



ORDERING INFORMATION

CATALOG NUMBER
X1146P

SIZE
100 µg
FORM
Unconjugated

HOST/CLONE
Rabbit

FORMULATION
Provided in phosphate buffered saline solution containing 0.02% sodium azide as a preservative

CONCENTRATION
See vial for concentration

ISOTYPE
IgG

APPLICATIONS
Western Blot

SPECIES REACTIVITY
Human, Rat, Mouse

ACCESSION NUMBER
Human P49238

POSITIVE CONTROL/TISSUE EXPRESSION

THP-1 Cell Lysate

COMMENTS

Detects CX₃CR1 receptors by Western blot at 0.5 to 1 µg/ml. Detects an approximately 50 kDa band in THP-1 cell lysates. Optimal concentration should be evaluated by serial dilutions.

PURIFICATION

Antigen Immunoaffinity Purification

SHIP CONDITIONS

Ship at ambient temperature, freeze upon arrival

STORAGE CUSTOMER

Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles

STABILITY

Products are stable for one year from purchase when stored properly

REFERENCES

1. Raport, C.J., et al. 'The orphan G-protein-coupled receptor-encoding gene V28 is closely related to genes for chemokine receptors and is expressed in lymphoid and neural tissues.' *Gene* 1995, 163, 295-299
2. Combadiere, C., et al. 'Cloning, chromosomal localization, and RNA expression of a human beta chemokine receptor-like gene.' *DNA Cell Biol.* 1995, 14, 673-680
3. Combadiere, C., et al. 'Gene cloning, RNA distribution, and functional expression of mCX3CR1, a mouse chemotactic receptor for the CX3C chemokine fractalkine.' *Biochem. Biophys. Res. Commun.* 1998, 253, 728-732
4. Harrison, J.K., et al. 'cDNA cloning of a G-protein-coupled receptor expressed in rat spinal cord and brain related to chemokine receptors.' *Neurosci. Lett.* 1994, 169, 85-89
5. Imai, T., et al. 'Identification and molecular characterization of fractalkine receptor CX3CR1, which mediates both leukocyte migration and adhesion.' *Cell* 1997, 91, 521-530
6. Combadiere, C., 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, 23799-23804

PRODUCT SPECIFIC REFERENCES