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Diagnostik & molekulare Diagnostik



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

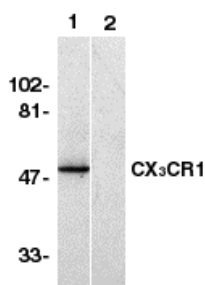
BACKGROUND

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 2 to 21 of human CX₃CR1 receptor. This sequence differs from the mouse and rat sequences by four amino acids.

Western blot analysis using CX₃CR1 (NT) antibody at 1 µg/ml on human spleen lysate in the absence (A) and presence (B) of specific blocking peptide.



ORDERING INFORMATION

CATALOG NUMBER
X1147P

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, Mouse, Rat

ACCESSION NUMBER
Human P49238

POSITIVE CONTROL/TISSUE EXPRESSION

Human spleen lysate

COMMENTS

Detects CX₃CR1 receptors by Western blot at 0.5 to 1 µg/ml. Detects an approximately 50 kDa band in human spleen 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