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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
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CXCR4 (NT) (HIV and chemokine receptor). Rabbit Polyclonal Antibody

Anti-CXCR4 (Fusin, LESTR, HUMSTR) (N Terminal)

Background

Human immunodeficiency virus (HIV) and related viruses require coreceptors, in addition to CD4, to infect target cells. Some G protein-coupled receptors including CCR5, CXCR4, CCR3, CCR2b and CCR8 in the chemokine receptor family, and four new human molecules GPR15, STRL33, GPR1 and V28 were recently identified as HIV coreceptors [1]. Among them, CXCR4 (fusin, LESTR or HUMSTR) is a principal coreceptor for T-cell tropic strains of HIV-1 fusion and entry of human white blood cells[2,3]. CXCR4 is also required for the infection by dual-tropic strains of HIV-1 and mediates CD-4 independent infection by HIV-2[4,5]. The α-chemokine SDF-1 is the ligand for CXCR4 and prevents infection by T-tropic HIV-1[6,7]. CXCR4 associates with the surface CD4-gp120 complex before HIV enters target cells[8]. CXCR4 messenger RNA levels correlated with HIV-1 permissiveness in diverse human cell types[2]. Antibodies to CXCR4 block HIV-1 and HIV-2 fusion and infection of human target cells[2,5,10]. The amino-terminal domain and the second extracellular loop of CXCR4 serve as HIV biding sites[10,11].

Ordering Information

Catalog Number
X1149P

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, Immunocytochemistry, Immunoprecipitation

Species Reactivity
Human, Mouse

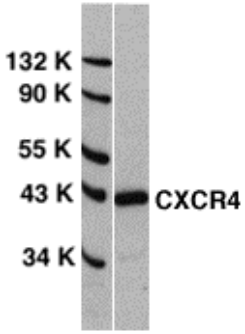
Accession Number

Human	P61073

Immunogen

Synthetic peptide corresponding to amino acids 1 to 14 of the N terminal of the human CXCR4 receptor.

Western blot analysis using CXCR4 (NT) antibody at 0.25 μg/ml on HeLa total cell lysate



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Positive Control/Tissue Expression

HeLa cell lysate

Comments

Detects CXCR4 receptor by Western blot at 1-2 μg/ml. Detects an approximately 42 kDa band in HeLa cell lysate. Can also be used for immunoprecipitation and immunocytochemistry at 10 μg/ml. Optimal concentration should be evaluated by serial dilutions.

Purification

Antigen Immunoaffiinity Purification

Ship Conditions

Ship at ambient temperature, freeze upon arrival

Storage Customer

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

Stability

Products are stable for one year from purchase when stored properly

References

1. Dimitrov, D.S. How do viruses enter cells? The HIV coreceptors teach us a lesson of complexity. Cell 1997, 91, 721-730

2. Feng, Y., et al. HIV-1 entry cofactor: functional cDNA cloning of a seven-transmembrane, G protein-coupled receptor. Science 1996, 272, 872-877

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4. Doranz, B.J., et al. A dual-tropic primary HIV-1 isolate that uses fusin and the beta-chemokine receptors CKR-5, CKR-3, and CKR-2b as fusion cofactors. Cell 1996, 85, 1149-1158

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6. Bleul, C.C., et al. The lymphocyte chemoattractant SDF-1 is a ligand for LESTR/fusin and blocks HIV-1 entry. Nature 1996, 382, 829-833

7. Oberlin, E., et al. The CXC chemokine SDF-1 is the ligand for LESTR/fusin and prevents infection by T-cell-line-adapted HIV-1. Nature 1996, 382, 833-835

8. Lapham, C.K., et al. Evidence for cell-surface association between fusin and the CD4-gp120 complex in human cell lines. Science 1996, 274, 602 -605

9. Leoetscher, M., et al. Cloning of a human seven-transmembrane domain receptor, LESTR, that is highly expressed in leukocytes. J. Biol. Chem. 1994, 269, 232-237

10. Brelot, A., et al. Role of the first and third extracellular domains of CXCR-4 in human immunodeficiency virus coreceptor activity. J. Virol. 1997, 71, 4744-4751

11. Lu, Z., et al. Evolution of HIV-1 coreceptor usage through interactions with distinct CCR5 and CXCR4 domains. Proc. Natl. Acad. Sci. USA 1997, 94, 6426-6431

Product Specific References

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