



Catalog: OM276482

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CXCR4 Antibody

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☐ 100ug

Product profile

Product name	CXCR4 Antibody
Antibody Type	Primary Antibodies
Product description	<p>CXCR4 Antibody: 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. 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. CXCR4 is also required for the infection by dual-tropic strains of HIV-1 and mediates CD-4 independent infection by HIV-2. The α-chemokine SDF-1 is the ligand for CXCR4 and prevents infection by T-tropic HIV-1. CXCR4 associates with the surface CD4-gp120 complex before HIV enters target cells. CXCR4 messenger RNA levels correlated with HIV-1 permissiveness in diverse human cell types. Antibodies to CXCR4 block HIV-1 and HIV-2 fusion and infection of human target cells. The amino-terminal domain and the second extracellular loop of CXCR4 serve as HIV binding sites.¹) Dimitrov DS. Cell 1997;91:721-730</p>
Immunogen	<p>CXCR4 antibody was raised against a 15 amino acid peptide near the center of human CXCR4. The immunogen is located within amino acids 170 - 220 of CXCR4.</p>

Key Feature

Clonality	Polyclonal
Isotype	IgG
Host Species	Rabbit
Tested Applications	ELISA ,IF ,IHC ,WB
Species Reactivity	Human Mouse
Concentration	1 mg/ml
Purification	Affinity purified

Target Information

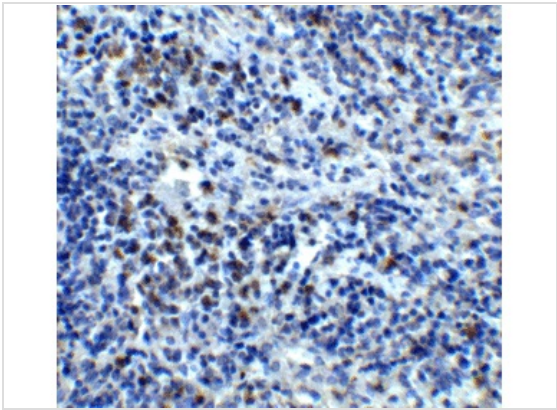
Gene Symbol	CXCR4
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Alternative Names	CXCR4 Antibody: FB22, HM89, LAP3, LCR1, NPYR, WHIM, CD184, LESTR, NPY3R, NPYRL, HSY3RR, NPY Y3R, D2S201E
Molecular Weight(MW)	39 kDa
Sequence Similarities	Predicted species reactivity based on immunogen sequence: Pig: (100%)

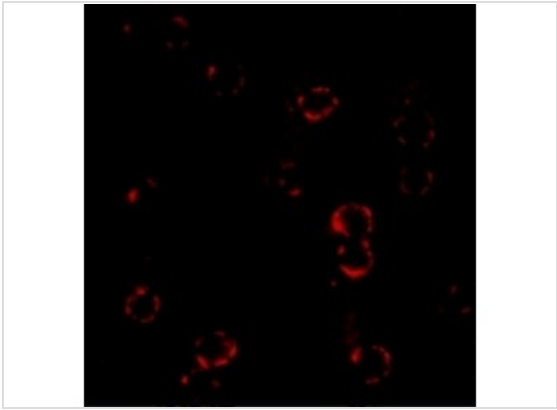
Database Links

Entrez Gene	7852
Protein Accession	NP_003458

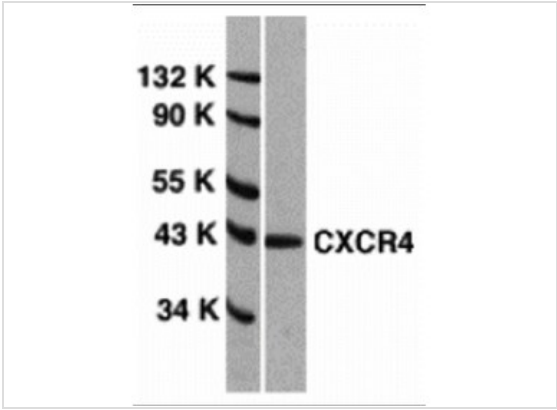
Application



Application
Immunohistochemistry of CXCR4 in mouse spleen tissue with CXCR4 antibody at 5 µg/ml.



Application
Immunofluorescence of CXCR4 in cells with CXCR4 antibody at 4 µg/ml.



Application
Western blot analysis of CXCR4 in HeLa total cell lysate with anti-CXCR4 (EL) at 1 µg/ml.

Positive Control 1) Cat. No. 1201 - HeLa Cell Lysate

Application Notes CXCR4 antibody can be used for Western blot 0.5 - 1 µg/mL. Antibody can also be used for Immunohistochemistry starting at 5 µg/mL. For immunofluorescence start at 4 µg/mL.:

Additional Information

Form	Liquid
Storage Instructions	CXCR4 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Storage Buffer	CXCR4 Antibody is supplied in PBS containing 0.02% sodium azide.
Note	The product is for research use only, not for use in diagnostic or therapeutic procedures.

OmnimAbs.com

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506 N. GARFIELD AVE #210 ALHAMBRA, CA 91801
This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt
