

## Product datasheet for **TA306518**

### CXCR4 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, ICC, IF, WB
Recommended Dilution:	CXCR4-Lo antibody can be used for Western blot at 10 µg/mL. Antibody can also be used for immunocytochemistry starting at 2 µg/mL. For immunofluorescence start at 4 µg/mL. Antibody validated: Western Blot in human samples; Immunohistochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested.
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	CXCR4-Lo antibody was raised against a peptide corresponding to nine amino acids near the amino terminus of human CXCR4 isoform a.
Specificity:	This antibody is specific for the longer isoform of CXCR4.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	CXCR4-Lo Antibody is affinity chromatography purified via peptide column.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	C-X-C motif chemokine receptor 4
Database Link:	<a href="#">NP_001008540</a> <a href="#">Entrez Gene 7852 Human</a> <a href="#">P61073</a>



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<b>Background:</b>	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 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 $\alpha$ -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. This antibody is specific for the longer isoform of CXCR4.
<b>Synonyms:</b>	CD184; D2S201E; FB22; HM89; HSY3RR; LAP-3; LAP3; LCR1; LESTR; NPY3R; NPYR; NPYRL; NPYY3R; WHIM
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, GPCR, Transmembrane
<b>Protein Pathways:</b>	Axon guidance, Chemokine signaling pathway, Cytokine-cytokine receptor interaction, Endocytosis, Leukocyte transendothelial migration