

Recombinant Human CXCR4

Cat. No. CXCR4-504H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CXCR4 was expressed in wheat germ.
Species	Human
Source	Wheat Germ
Description	This gene encodes a CXC chemokine receptor specific for stromal cell-derived factor-1. The protein has 7 transmembrane regions and is located on the cell surface. It acts with the CD4 protein to support HIV entry into cells and is also highly expressed in breast cancer cells. Mutations in this gene have been associated with WHIM (warts, hypogammaglobulinemia, infections, and myelokathexis) syndrome. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.
Form	Liquid
Molecular Mass	39.7 kDa
AA Sequence	MEGISIYTS DNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVILVMGYQKKLRSM TDK YRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNLYSSVLILAFISLD RYLAIVHATNSQRPRKL LAEKVVYVGVWIPALLLTIPDFIFANVSEADDRYICDRFY PNDLWVVVFQFQHIMVGLILPGIVILSCYCIISK LSHSKGHQKRK ALKTTVILILAFFACWLPYYIGISIDSFILLEIKQGCEFENTVHKWISITEALAFFHCCLNPI LYAFLGAKFKTSAQH ALTSVSRGSSLKILSKGKRGGHSSVSTESSESSSFHSS
Applications	Antibody Production; Functional Study; Compound Screening

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Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	25 mM Tris-HCl of pH 8.0 containing 2% glycerol.
GENE INFORMATION	
Gene Name	CXCR4 chemokine (C-X-C motif) receptor 4 [Homo sapiens]
Official Symbol	CXCR4
Synonyms	CXCR4; chemokine (C-X-C motif) receptor 4; chemokine (C X C motif), receptor 4 (fusin); C-X-C chemokine receptor type 4; CD184; D2S201E; fusin; HM89; HSY3RR; LESTR; NPY3R; NPYR; NPYY3R; CXC-R4; CXCR-4; CD184 antigen; SDF-1 receptor; neuropeptide Y receptor Y3; seven transmembrane helix receptor; stromal cell-derived factor 1 receptor; lipopolysaccharide-associated protein 3; seven-transmembrane-segment receptor, spleen; leukocyte-derived seven transmembrane domain receptor; leukocyte-derived seven-transmembrane-domain receptor; FB22; LAP3; LCR1; WHIM; NPYRL
Gene ID	7852
mRNA Refseq	NM_001008540
Protein Refseq	NP_001008540
MIM	162643
UniProt ID	P61073

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Chromosome Location	2q21
Pathway	Axon guidance; Cardiac Progenitor Differentiation; Class A/1 (Rhodopsin-like receptors)
Function	C-X-C chemokine receptor activity; G-protein coupled receptor activity; myosin light chain binding

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