

Recombinant Human CCR5, GST-tagged

Cat. No. CCR5-120H Lot. No. (See product label)

SPECIFICATION

Product Overview CCR5 (XP_001125981.1, 1 a.a. - 352 a.a.) recombinant protein with a ~26kD N-terminal GST tag..

Species Human

Source Wheat Germ

ProteinLength 1-352 a.a.

Description

This gene encodes a member of the beta chemokine receptor family, which is predicted to be a seven transmembrane protein similar to G protein-coupled receptors. This protein is expressed by T cells and macrophages, and is known to be an important co-receptor for macrophage-tropic virus, including HIV, to enter host cells. Defective alleles of this gene have been associated with the HIV infection resistance. The ligands of this receptor include monocyte chemoattractant protein 2 (MCP-2), macrophage inflammatory protein 1 alpha (MIP-1 alpha), macrophage inflammatory protein 1 beta (MIP-1 beta) and regulated on activation normal T expressed and secreted protein (RANTES). Expression of this gene was also detected in a promyeloblastic cell line, suggesting that this protein may play a role in granulocyte lineage proliferation and differentiation. This gene is located at the chemokine receptor gene cluster region. Two transcript variants encoding the same protein have been found for this gene.

Form 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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Molecular Mass	66.9 kDa
AA Sequence	MDYQVSSPIYDINYTSEPCQKINVKQIAARLLPPLYSLVFIFGFVGNMLVILILINCKRL KSMTDIYLLNLAIS DLFFLLTVPFWAHYAAAQWDFGNTMCQLLTGLYFIGFFSGIF FII LLTIDRYLAVVHAVFALKARTVTFGVVTS VITWVVAVFASLPGIIFTRSQKEGLHYTCS SHFPYSQYQFWKNFQTLKIVILGLVLP LLVMVICYSGILKTL LRC RNEKKRHRAV RLI FTIMIVYFLFWAPYNIVLLLNTFQEFFGLNNCSSSNRLDQAMQVTETLGMTHCCINPII YA FVGEKFRNYLLVFFQKHI AKRFCKCCSIFQQEAPERASSVYTRSTGEQEISVGL
Applications	Western Blot; ELISA; Protein Array; Antibody Production
Storage	Store at -80C. Avoid freeze-thaw cycles.
GENE INFORMATION	
Gene Name	CCR5 chemokine (C-C motif) receptor 5 (gene/pseudogene) [Homo sapiens (human)]
Official Symbol	CCR5
Synonyms	CCR5; CKR5; CCR-5; CD195; CKR-5; CCCKR5; CMKBR5; IDDM22; CC-CKR-5; chemokine (C-C motif) receptor 5 (gene/pseudogene); C-C chemokine receptor type 5; chemr13; HIV-1 fusion coreceptor; chemokine receptor CCR5; C-C motif chemokine receptor 5 A159A
Gene ID	1234
mRNA Refseq	NM_000579
Protein Refseq	NP_000570

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MIM	601373
UniProt ID	P51681
Chromosome Location	3p21.31
Pathway	Binding and entry of HIV virion; Chemokine receptors bind chemokines; Class A/1 (Rhodopsin-like receptors)
Function	C-C chemokine binding; chemokine (C-C motif) ligand 5 binding; phosphatidylinositol phospholipase C activity

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