

Recombinant Human CCR5 cell lysate

Cat. No. CCR5-309HCL Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CCR5, fused to Flag-tag, was expressed in HEK293T cell.
Species	Human
Source	HEK293
Description	<p>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.</p>
Molecular Mass	40.3 kDa
Components	1 vial of 100 g gene specific transient over-expression cell lysate in RIPA buffer. 1 vial of 100 g empty vector transfected control cell lysate in RIPA buffer. 1 vial of 250ul

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2xSDS Sample Buffer (4% SDS, 125mM Tris-HCl pH6.8, 10% Glycerol, 0.002% Bromphenol blue, 100mM DTT).

Preparation method

Transfected cells were cultured for 48hrs before collection. The cells were lysed in modified RIPA buffer (25mM Tris-HCl pH7.6, 150mM NaCl, 1% NP-40, 1mM EDTA, 1xProteinase inhibitor cocktail mix, 1mM PMSF and 1mM Na3VO4), and then centrifuged to clarify the lysate. Protein concentration was measured by BCA kit. Cell lysates were aliquoted and stored at -20°C before shipping.

Storage Instruction

The lysate is shipped with dry ice. Upon receiving, store the sample at -20°C. Lysate samples are stable for 12 months from date of receipt when stored at -20°C. Avoid repeated freeze-thaw cycles. Lysate samples can be diluted with 2xSDS Sample Buffer provided. After dilution, the protein sample should be aliquoted and stored at -20°C for long term storage. Prior to SDS-PAGE fractionation, boil the lysate for 5 minutes.

Applications

Western Blot;

GENE INFORMATION

Gene Name [CCR5 chemokine \(C-C motif\) receptor 5 \(gene/pseudogene\) \[Homo sapiens \]](#)

Official Symbol CCR5

Synonyms

CCR5; chemokine (C-C motif) receptor 5 (gene/pseudogene); chemokine (C C motif) receptor 5 , CMKBR5; C-C chemokine receptor type 5; CC CKR 5; CD195; CKR 5; CKR5; IDDM22; chemr13; HIV-1 fusion coreceptor; chemokine receptor CCR5; C-C motif chemokine receptor 5 A159A; CCR-5; CKR-5; CCCKR5; CMKBR5; CC-CKR-5; FLJ78003;

Gene ID [1234](#)

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mRNA Refseq	NM_000579
Protein Refseq	NP_000570
MIM	601373
UniProt ID	P51681
Chromosome Location	3p21
Pathway	Binding and entry of HIV virion, organism-specific biosystem; Chemokine receptors bind chemokines, organism-specific biosystem; Chemokine signaling pathway, organism-specific biosystem; Chemokine signaling pathway, conserved biosystem; Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem;
Function	C-C chemokine binding; C-C chemokine receptor activity; C-C chemokine receptor activity; G-protein coupled receptor activity; actin binding; chemokine (C-C motif) ligand 5 binding; chemokine receptor activity; coreceptor activity; phosphatidylinositol phospholipase C activity; protein binding; receptor activity; signal transducer activity;

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