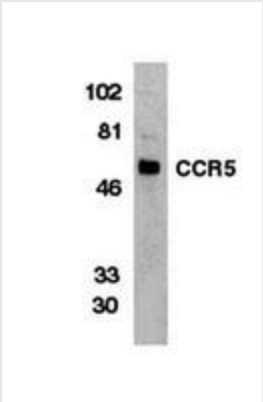
CCR5 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CCR5, Polyclonal Antibody
Full Product Name	CCR5, NT (C-C Chemokine Receptor Type 5, C-C CKR-5, CC-CKR-5, CCR-5, CHEMR13, HIV-1 Fusion Coreceptor, CD195, CMKBR5) (HRP)
Product Gene Name	anti-CCR5 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Horseradish Peroxidase (HRP).
Purity/Purification	Purified
Specificity	Recognizes the N-terminal domain of human CCR5.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates.
Molecular Weight	40,524 Da
Chromosome Location	Chromosome: 3; NC_000003.11 (46411633..46417697). Location: 3p21.31
OMIM	601373
3D Structure	ModBase 3D Structure for P51681
Immunogen	Synthetic peptide corresponding to human CCR5 at N-terminus.
Conjugate	HRP
Note	Preservative Free
Product Categories/Family for anti-CCR5 antibody	Antibodies; G Protein Receptors
Applications Tested/Suitable for anti-CCR5 antibody	Western Blot (WB)
Application Notes for anti-CCR5 antibody	WB: 1:1000-1:2000 Applications are based on unconjugated antibody.
Related Product Information for anti-CCR5 antibody	MBS6444604 is an antibody targeting CCR5. Also known as CCR5, NT (C-C Chemokine Receptor Type 5, C-C CKR-5, CC-CKR-5, CCR-5, CHEMR13, HIV-1 Fusion Coreceptor, CD195, CMKBR5) (HRP). Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-CCR5 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-CCR5 antibody
Western blot analysis of CCR5 in THP-1 whole cell lysate with anti-CCR5 polyclonal antibody at 1:1000 dilution.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CCR5. It may not necessarily be applicable to this product.

NCBI GI #	4502639
NCBI GeneID	1234
NCBI Accession #	NP_000570.1
UniProt Primary Accession #	P51681
UniProt Secondary Accession #	O14692; O14693; O14695; O14696; O14697; O14698; O14699; O14700; O14701; O14702; O14703
UniProt Related Accession #	P51681
GenBank Nucleotide #	NM_000579.3
NCBI Official Full Name	C-C chemokine receptor type 5
NCBI Official Synonym Full Names	chemokine (C-C motif) receptor 5 (gene/pseudogene)
NCBI Official Symbol	CCR5
NCBI Official Synonym Symbols	CKR5; CCR-5; CD195; CKR-5; CCCKR5; CMKBR5; IDDM22; CC-CKR-5
UniProt Protein Name	C-C chemokine receptor type 5
UniProt Synonym Protein Names	CHEMR13; HIV-1 fusion coreceptor
Protein Family	C-C chemokine receptor
UniProt Gene Name	CCR5
UniProt Synonym Gene Names	CMKBR5; C-C CKR-5; CC-CKR-5; CCR-5; CCR5
UniProt Entry Name	CCR5_HUMAN
NCBI Protein Information	C-C chemokine receptor type 5; chemr13; HIV-1 fusion coreceptor; chemokine receptor CCR5; C-C motif chemokine receptor 5 A159A

NCBI Summary for CCR5	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. [provided by RefSeq, Jul 2008]
UniProt Comments for CCR5	CCR5: a 7-transmembrane G-linked receptor for a number of inflammatory C-C type chemokines including MIP-1-alpha, MIP-1-beta and RANTES. Transduces a signal by increasing the intracellular calcium ion level. May play a role in the control of granulocytic lineage proliferation or differentiation. Acts as a coreceptor (along with CD4) for HIV-1 R5 isolates. Interacts with PRAF2. Interacts with HIV-1 surface protein gp120. Efficient ligand binding to CCL3/MIP-1alpha and CCR4/MIP-1beta requires sulfation, O-glycosylation and sialic acid modifications. Glycosylation on S6 is required for efficient binding of CCL4. Interacts with ADRBK1. Interacts with ARRB1 and ARRB2. Variations in CCR5 are associated with resistance or susceptibility to immunodeficiency virus type 1 (resistance or susceptibility to HIV-1). Variations in CCR5 gene also influence the rate of progression to AIDS after infection. R60S variant, a naturally occurring mutation in a conserved residue in the first intracellular domain of CCR5, results in reduced amounts of the protein in the membrane and consequently may be associated with reduced susceptibility to infection by microbes that depend on these molecules as their receptors. Variations in CCR5 are associated with susceptibility to West Nile virus (WNV) infection Protein type: Receptor, GPCR; Motility/polarity/chemotaxis; Receptor, cytokine; GPCR, family 1; Membrane protein, integral; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 3p21.31 Cellular Component: cell surface; integral to plasma membrane; cytoplasm; plasma membrane; endosome; external side of plasma membrane Molecular Function: protein binding; C-C chemokine receptor activity; chemokine receptor activity; coreceptor activity; C-C chemokine binding; actin binding; phosphoinositide phospholipase C activity Biological Process: viral reproduction; MAPKKK cascade; calcium-mediated signaling; chemotaxis; release of sequestered calcium ion by sarcoplasmic reticulum into cytosol; G-protein coupled receptor protein signaling pathway; elevation of cytosolic calcium ion concentration; cell surface receptor linked signal transduction; cell-cell signaling; calcium ion transport; cellular defense response; dendritic cell chemotaxis; entry into host cell; immune response; inflammatory response Disease: West Nile Virus, Susceptibility To; Diabetes Mellitus, Insulin-dependent, 22; Hepatitis C Virus, Susceptibility To
Research Articles on CCR5	**1.** The prognostic implications of two polymorphisms in TP53 (p.R72P, PIN3 Ins16bp) and one in CCR5 (CCR5/32) in sporadic breast cancer patients.
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