

Datasheet for ABIN1881182
anti-CCR5 antibody (AA 151-177)



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Overview

Quantity:	400 µL
Target:	CCR5
Binding Specificity:	AA 151-177
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CCR5 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	This CCR5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 151-177 amino acids from the Central region of human CCR5.
Clone:	RB41438
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	CCR5
Alternative Name:	CCR5 (CCR5 Products)
Background:	This gene encodes a member of the beta chemokine receptor family, which is predicted to be a

Target Details

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.

Molecular Weight:	40524
NCBI Accession:	NP_000570 , NP_001093638
UniProt:	P51681
Pathways:	Cellular Response to Molecule of Bacterial Origin , cAMP Metabolic Process , Regulation of Cell Size

Application Details

Application Notes:	WB: 1:1000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Expiry Date:	6 months

Publications

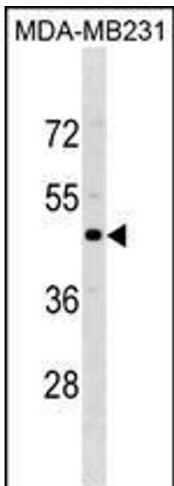
Product cited in:	Gérard, Stanich, Oszust, Whittum-Hudson, Carter, Schumacher, Hudson: "Functional CCR5
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receptor protects patients with arthritis from high synovial burden of infecting Chlamydia trachomatis." in: **The American journal of the medical sciences**, Vol. 340, Issue 6, pp. 448-51, (2010) ([PubMed](#)).

Hammad, Kuang, Yan, Allen, Dupré: "Na⁺/H⁺ exchanger regulatory factor-1 is involved in chemokine receptor homodimer CCR5 internalization and signal transduction but does not affect CXCR4 homodimer or CXCR4-CCR5 heterodimer." in: **The Journal of biological chemistry**, Vol. 285, Issue 45, pp. 34653-64, (2010) ([PubMed](#)).

Martens, Gross, van der Steege, Brouwer, Berden, de Sevaux, Derksen, Voskuyl, Berger, Navis, Kallenberg, Bijl: "Lack of association of C-C chemokine receptor 5 Δ32 deletion status with rheumatoid arthritis, systemic lupus erythematosus, lupus nephritis, and disease severity." in: **The Journal of rheumatology**, Vol. 37, Issue 11, pp. 2226-31, (2010) ([PubMed](#)).

Weng, Chien, Lin, Chung, Zavras, Tsai, Chen, Yang: "Effect of CC chemokine ligand 5 and CC chemokine receptor 5 genes polymorphisms on the risk and clinicopathological development of oral cancer." in: **Oral oncology**, Vol. 46, Issue 10, pp. 767-72, (2010) ([PubMed](#)).



Western Blotting

Image 1. CCR5 Antibody (Center) (ABIN1881182 and ABIN2838678) western blot analysis in MDA-M cell line lysates (35 µg/lane). This demonstrates the CCR5 antibody detected the CCR5 protein (arrow).