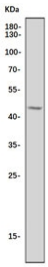
CCR5 Antibody (RQ6460)

Catalog No.	Formulation	Size
RQ6460	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P51681
Applications	Western Blot : 1-2ug/ml
Limitations	This CCR5 antibody is available for research use only.



Western blot testing of human Jurkat cell lysate with CCR5 antibody. Predicted molecular weight ~41 kDa.

Description

CCR5 Antibody detects C-C chemokine receptor type 5, also known as CCR5 or CD195, a protein on the surface of white blood cells that is involved in the immune system as it acts as a receptor for chemokines. It is mapped to 3p21.31. 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. An allelic polymorphism in this gene results in both functional and non-functional alleles; the reference genome represents the functional allele. Two transcript variants encoding the same protein have been found for this gene.

For additional information about CCR5 biology, CD195 function, chemokine receptor signaling, and the full research applications of this target, see our CCR5 Antibody / CD195 Antibody page.

Application Notes

Optimal dilution of the CCR5 antibody should be determined by the researcher.

Immunogen

Amino acids EKFRNYLLVFFQKHIAKRFCK from the human protein were used as the immunogen for the CCR5 antibody.

Storage

After reconstitution, the CCR5 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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