

CCR5 Antibody

Catalog # ASC10007

Product Information

Application WB, E, IHC-P Primary Accession P51681

Other Accession <u>AAB57793</u>, <u>2104520</u>

Reactivity
Human
Rabbit
Clonality
Polyclonal
Isotype
IgG
Calculated MW
40524
Concentration (mg/ml)
Conjugate
Unconjugated

Application Notes CCR5 antibody can be used for Western blot at 1 Ig/mL. CCR5 antibody can

also detect CCR5 by immunohistochemistry at 20 [g/mL.

Additional Information

Gene ID 1234

Other Names CCR5 Antibody: CKR5, CCR-5, CD195, CKR-5, CCCKR5, CMKBR5, IDDM22,

CC-CKR-5, C-C chemokine receptor type 5, CHEMR13, C-C CKR-5, chemokine

(C-C motif) receptor 5

Target/Specificity CCR5;

Reconstitution & Storage CCR5 antibody can be stored at 4°C for three months and -20°C, stable for up

to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high

temperatures.

Precautions CCR5 Antibody is for research use only and not for use in diagnostic or

therapeutic procedures.

Protein Information

Name CCR5 (HGNC:1606)

Synonyms CMKBR5

Function Receptor for a number of inflammatory CC-chemokines including

CCL3/MIP-1-alpha, CCL4/MIP-1-beta and RANTES and subsequently

transduces a signal by increasing the intracellular calcium ion level. May play a role in the control of granulocytic lineage proliferation or differentiation. Participates in T-lymphocyte migration to the infection site by acting as a

chemotactic receptor (PubMed: 30713770).

Cellular Location

Cell membrane; Multi-pass membrane protein

Tissue Location

Highly expressed in spleen, thymus, in the myeloid cell line THP-1, in the promyeloblastic cell line KG-1a and on CD4+ and CD8+ T-cells. Medium levels in peripheral blood leukocytes and in small intestine. Low levels in ovary and lung.

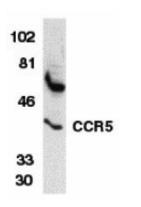
Background

CCR5 Antibody: Human immunodeficiency virus (HIV) and related virus require coreceptors, in addition to CD4, to infect target cells. Some G protein-coupled receptors including CCR5, CXCR4, CCR3, CCR2b and CCR8 in the chemokine receptor family, and four new human molecules GPR15, STRL33, GPR1 and V28 were recently identified as HIV coreceptors. Among them, CCR5 (CC-CKR-5) is a principal coreceptor for macrophage- and dual-tropic HIV-1 strains fusion and entry of human white blood cells. CCR5 is required for the infection by HIV-1, HIV-2, and SIV. The beta-chemokines RANTES, MIP-alpha and MIP-beta are the ligands for CCR5 and prevent infection by M-tropic HIV-1. CXC5 associates with the surface CD4-gp120 of HIV complex and leads to membrane fusion and virus entry of target cells. The amino-terminal domain and the extracellular loops of CCR5 serve as HIV biding sites. CCR5 messenger RNA is expressed in lymphoid organs and monocytes.

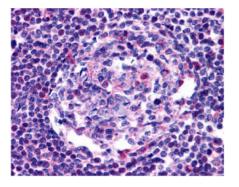
References

Dimitrov, DS. Cell 1997; 91:721-30 Littman, DR. Cell 1998; 93:677-80 Deng, H, et al. Nature 1996; 381:661-6 Dragic, T, et al. Nature 1996; 381:667-73

Images



Western blot analysis of CCR5 in THP-1 whole cell lysate with CCR5 antibody at 1 μ g/mL.



Immunohistochemistry of CCR5 in human lymph node tissue with CCR5 antibody at 20 µg/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.