

CCR5 Rabbit pAb

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Catalog # AP52222

Product Information

Application	WB
Primary Accession	P51681
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	40524
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CCR-5
Epitope Specificity	201-300/352
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cell membrane; Multi-pass membrane protein.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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].

Additional Information

Gene ID	1234
Other Names	C-C chemokine receptor type 5, C-C CKR-5, CC-CKR-5, CCR-5, CCR5, CHEMR13, HIV-1 fusion coreceptor, CD195, CCR5 (HGNC:1606), CMKBR5
Dilution	WB=1:500-2000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

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.

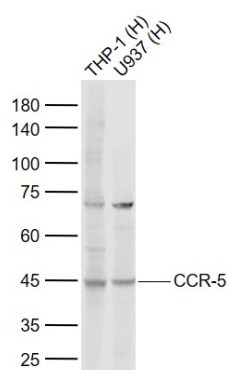
Background

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References

Samson M.,et al.Biochemistry 35:3362-3367(1996).
Raport C.J.,et al.J. Biol. Chem. 271:17161-17166(1996).
Combadiere C.,et al.J. Leukoc. Biol. 60:147-152(1996).
Kuhmann S.E.,et al.J. Virol. 71:8642-8656(1997).
Zhang L.,et al.AIDS Res. Hum. Retroviruses 13:1357-1366(1997).

Images



Sample:

Lane 1: Human THP-1 cell lysates

Lane 2: Human U937 cell lysates

Primary: Anti-CCR-5 (AP52222) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 40 kD

Observed band size: 43 kD

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