

CCR5 Antibody(Center) Blocking peptide
Synthetic peptide
Catalog # BP19617c**Specification**

CCR5 Antibody(Center) Blocking peptide - Product InformationPrimary Accession [P51681](#)**CCR5 Antibody(Center) Blocking peptide - 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, CMKBR5

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CCR5 Antibody(Center) Blocking peptide - 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.

CCR5 Antibody(Center) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

CCR5 Antibody(Center) Blocking peptide - Images

CCR5 Antibody(Center) Blocking peptide - Background

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.

CCR5 Antibody(Center) Blocking peptide - References

Gerard, H.C., et al. Am. J. Med. Sci. 340(6):448-451(2010) Hammad, M.M., et al. J. Biol. Chem. 285(45):34653-34664(2010) Martens, H.A., et al. J. Rheumatol. 37(11):2226-2231(2010) Weng, C.J., et al. Oral Oncol. 46(10):767-772(2010) Mamtani, M., et al. PLoS ONE 5 (7), E11458 (2010) :