



CCR5 (Chemokine Receptor 5, CC-CCR-5, CD195)

Catalog number

C2099-69H

Supplier

United States Biological

The CC chemokine receptor 5 (CCR5) is a member of the CC chemokine receptor family. It has the characteristic structure of a 7 transmembrane G protein-coupled receptor (GPCR). CCR5 is a receptor for a number of inflammatory CC chemokines including MIP-1-alpha, MIP-1-beta and RANTES. It transduces a signal by increasing the intracellular calcium ion level and may play a role in the control of granulocytic lineage proliferation or differentiation. It also acts as a coreceptor (CD4 being the primary receptor) for HIV-1 R5 isolates. CCR5 is highly expressed in spleen, thymus, and also in the myeloid cell line THP-1, the promyeloblastic cell line KG-1A and on the CD4+ and CD8+ T-cells. Moreover, recent studies have highlighted the role of CCR5 in a variety of human diseases, ranging from infectious and inflammatory diseases to cancer.

Applications

Suitable for use in ELISA and Immunohistochemistry. Other applications not tested.

Recommended Dilution

ELISA: 0.05-2ug/ml

Immunohistochemistry (Paraffin): 5-10ug/ml

Optimal dilutions to be determined by the researcher.

Storage and Stability

Lyophilized powder may be stored at -20°C. Stable for 12 months at -20°C. Reconstitute with sterile ddH₂O. Aliquot to avoid repeated freezing and thawing. Store at -20°C. Reconstituted product is stable for 12 months at -20°C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.

Immunogen

Synthetic peptide corresponding to the extracellular domain of human CCR5 (KLH).

Formulation

Supplied as a lyophilized powder from PBS, pH 7.4, 0.02% sodium azide. Reconstitute with 80ul sterile ddH₂O.

Purity

Purified by immunoaffinity chromatography.

Specificity

Recognizes human CCR5 protein.

Product Type

Pab

Source



human

Isotype

IgG

Grade

Affinity Purified

Applications

E IHC

Crossreactivity

Hu

Storage

-20°C