

**CD195 (CC-Chemokine Receptor 5) Antibody - With BSA and Azide**  
**Mouse Monoclonal Antibody [Clone 12D1 ]**  
**Catalog # AH11102**

**Specification**

**CD195 (CC-Chemokine Receptor 5) Antibody - With BSA and Azide - Product Information**

Application	IHC-F, IF, FC
Primary Accession	<a href="#">P51681</a>
Other Accession	<a href="#">1234</a> , <a href="#">450802</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG2a, kappa
Calculated MW	45kDa KDa

**CD195 (CC-Chemokine Receptor 5) Antibody - With BSA and Azide - 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

**Application Note**

IHC-F ~ ~ N/A  
IF ~ ~ 1:50 ~ 200  
FC ~ ~ 1:10 ~ 50

**Storage**

Store at 2 to 8°C. Antibody is stable for 24 months.

**Precautions**

CD195 (CC-Chemokine Receptor 5) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

**CD195 (CC-Chemokine Receptor 5) Antibody - With BSA and Azide - 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: <http://www.uniprot.org/citations/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.

**CD195 (CC-Chemokine Receptor 5) Antibody - With BSA and Azide - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**CD195 (CC-Chemokine Receptor 5) Antibody - With BSA and Azide - Images****CD195 (CC-Chemokine Receptor 5) Antibody - With BSA and Azide - Background**

Reacts with the N-terminal extracellular domain of CD195. The CC chemokine receptor 5 (CCR5) is a member of the CC-chemokine receptor family, and has the characteristic structure of a 7 transmembrane G protein-coupled receptor (GPCR). CCR5 regulates trafficking and effector functions of memory/effector Th1 cells, macrophages, NK cells, and immature dendritic cells. CCR5 and its ligands play an important role in viral pathogenesis. CCR5 represents the co-receptor for macrophage (M) and dual (T cell and M)-tropic immunodeficiency viruses. Together with the CD4 binding receptor, CCR5 plays a critical role in HIV entry into the target cells. Moreover, the CCR5 ligands macrophage inflammatory protein (MIP)-1 alpha, MIP-1 beta and RANTES act as endogenous inhibitors of HIV infection, making both CCR5 and its chemokine ligands attractive therapeutic targets for HIV infection. Recent studies have also highlighted the role of CCR5 in a variety of other human diseases, ranging from infectious and inflammatory diseases to cancer.

**CD195 (CC-Chemokine Receptor 5) Antibody - With BSA and Azide - References**

Samson M, et al. 1996. Biochemistry 35:3362.2. Raport CJ, et al. 1996. J. Biol. Chem. 271:17161.3. Combadiere C, et al. 1996. J. Leukoc. Biol. 60:147.4. Deng H, et al. 1996. Nature 381:661