

Product datasheet for **AP05821PU-N**

CCR5 (6-20) Rabbit Polyclonal Antibody

Product data:

| | |
|-----------------------|---|
| Product Type: | Primary Antibodies |
| Applications: | IHC, IP, WB |
| Recommended Dilution: | Western blot: 1:1000. Immunohistochemistry on paraffin sections: 20 µg/ml; This product requires antigen retrieval using heat treatment prior to staining of paraffin sections; Sodium citrate buffer pH6.0 is recommended for this purpose. |
| Reactivity: | Human |
| Host: | Rabbit |
| Isotype: | IgG |
| Clonality: | Polyclonal |
| Immunogen: | Peptide corresponding to amino acids 6 to 20 of human CCR5. |
| Specificity: | This antibody recognises the N-terminal region of the chemokine receptor CCR5, also known as CD195. CCR5 is a receptor for the beta chemokines RANTES, MIP-1alpha and MIP-1beta. |
| Formulation: | Phosphate buffered saline containing 0.02% Sodium Azide State: Purified State: Liquid purified IgG |
| Concentration: | lot specific |
| Conjugation: | Unconjugated |
| Storage: | Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. |
| Stability: | Shelf life: one year from despatch. |
| Gene Name: | C-C motif chemokine receptor 5 (gene/pseudogene) |
| Database Link: | Entrez Gene 1234 Human P51681 |

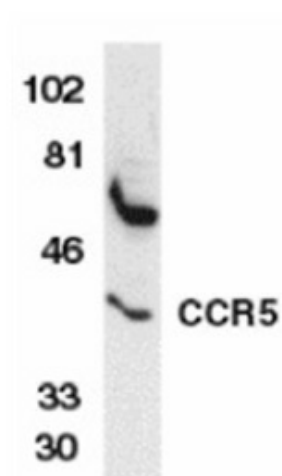
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Background:

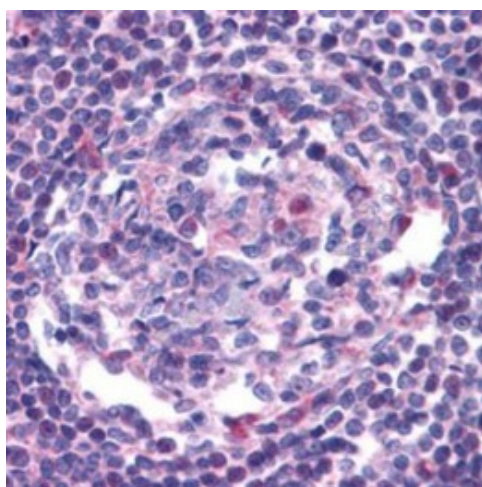
The CC chemokine receptor 5 (CCR5) is a member of the CC-chemokine receptor family, and has the characteristic structure of a 7 transmembrane G protein-coupled receptor (GPCR). CCR5 regulates trafficking and effector functions of memory/effector Th1 cells, macrophages, NK cells, and immature dendritic 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.

Synonyms:

C-C chemokine receptor type 5, C-C CKR-5, CC-CKR-5, CCR-5, CMKBR5, CHEMR13

Product images:


Western Blot analysis of THP-1 whole cell lysate probed with Rabbit anti Human CD195 (A)



Staining of human lymph node tissue with Rabbit anti Human CCR5 (NT) at 20 ug/ml. Formalin fixed paraffin processed tissue.