CCR5 Antibody

Catalog No: #24008

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

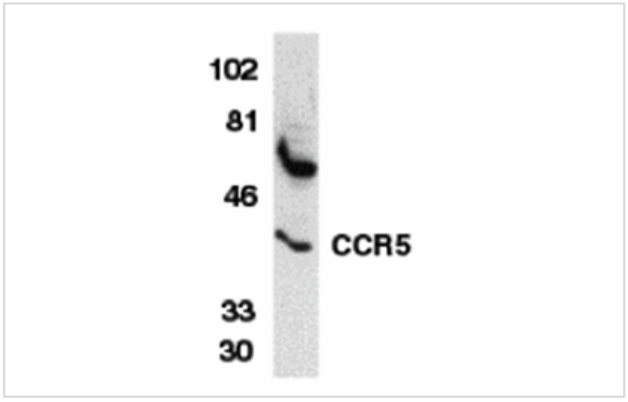
Description

Product Name	CCR5 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	DEAE purified
Applications	ELISA WB IHC
Species Reactivity	Hu
Immunogen Type	Peptide
Immunogen Description	Raised against a peptide corresponding to amino acids 6 to 20 of human CCR5.
Target Name	CCR5
Accession No.	Swiss-Prot:P51681Gene ID:1234
Uniprot	P51681
GeneID	1234;
Concentration	1mg/ml
Formulation	Supplied in PBS containing 0.02% sodium azide.
Storage	Can be stored at -20°C, stable for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

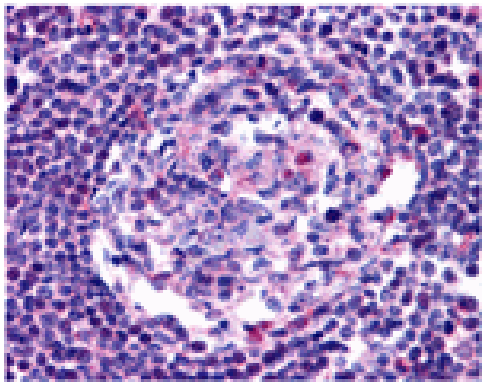
Application Details

Predicted MW: 40 kd

Images



Western blot analysis of CCR5 in THP-1 whole cell lysate with CCR5 antibody at 1:1000 dilution.



Immunohistochemistry of CCR5 in human lymph node tissue with CCR5 antibody at 20 ug/mL.

Background

Human immunodeficiency virus (HIV) and related virus require coreceptors, in addition to CD4, to infect target cells. Some G protein-coupled receptors including CCR5, CXCR4, CCR3, CCR2b and CCR8 in the chemokine receptor family, and four new human molecules GPR15, STRL33, GPR1 and V28 were recently identified as HIV coreceptors. Among them, CCR5 (CC-CKR-5) is a principal coreceptor for macrophage- and dual-tropic HIV-1 strains fusion and entry of human white blood cells. CCR5 is required for the infection by HIV-1, HIV-2, and SIV. The beta-chemokines RANTES, MIP-alpha and MIP-beta are the ligands for CCR5 and prevent infection by M-tropic HIV-1. CXC5 associates with the surface CD4-gp120 of HIV complex and leads to membrane fusion and virus entry of target cells. The amino-terminal domain and the extracellular loops of CCR5 serve as HIV biding sites. CCR5 messenger RNA is expressed in lymphoid organs and monocytes.

Note: This product is for in vitro research use only