CXCR4 Antibody

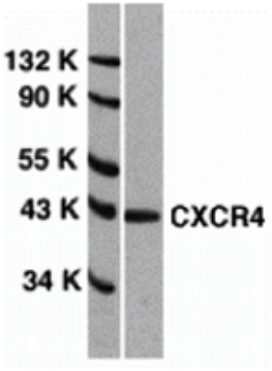
Catalog No: #24003

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

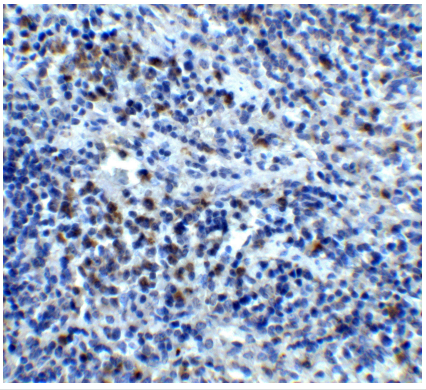
Description

Product Name	CXCR4 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	CXCR4 Antibody is Protein A purified.
Applications	ELISA WB
Species Reactivity	Hu Ms
Immunogen Type	Peptide
Immunogen Description	Raised against a peptide corresponding to amino acids 182 to 196 in. The second extracellular loop (EL) of human CXCR4.
Target Name	CXCR4
Accession No.	Swiss-Prot:P61073Gene ID:7852
Uniprot	P61073
GeneID	7852;
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.

Images



Western blot analysis of CXCR4 in HeLa total cell lysate with anti-CXCR4 (EL) at 1:1000 dilution.



Immunohistochemistry of CXCR4 in mouse spleen tissue with CXCR4 antibody at 5 µg/ml.

Background

Human immunodeficiency virus (HIV) and related viruses 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, CXCR4 (fusin, LESTR or HUMSTR) is a principal coreceptor for T-cell tropic strains of HIV-1 fusion and entry of human white blood cells. CXCR4 is also required for the infection by dual-tropic strains of HIV-1 and mediates CD-4 independent infection by HIV-2. The a-chemokine SDF-1 is the ligand for CXCR4 and prevents infection by T-tropic HIV-1. CXCR4 associates with the surface CD4-gp120 complex before HIV enters target cells. CXCR4 messenger RNA levels correlated with HIV-1 permissiveness in diverse human cell types. Antibodies to CXCR4 block HIV-1 and HIV-2 fusion and infection of human target cells. The amino-terminal domain and the second extracellular loop of CXCR4 serve as HIV biding sites.

Note: This product is for in vitro research use only