

Datasheet for ABIN499700

anti-CXCR4 antibody (Isoform A, N-Term)**3** Images[Go to Product page](#)

Overview

Quantity:	0.1 mg
Target:	CXCR4
Binding Specificity:	Isoform A, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CXCR4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	A peptide corresponding to nine amino acids near the amino terminus of Human CXCR4 isoform a.
Isotype:	IgG
Specificity:	This antibody is specific for the longer isoform of CXCR4.
Purification:	Purified

Target Details

Target:	CXCR4
Alternative Name:	CD184 / CXCR4 (CXCR4 Products)
Background:	Human immunodeficiency virus (HIV) and related viruses require coreceptors, in addition to

Target Details

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 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 α -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 binding sites. This antibody is specific for the longer isoform of CXCR4. Synonyms: C-X-C chemokine receptor type 4, CXC-R4, CXCR-4, FB22, Fusin, HM89, LCR1, LESTR, Leukocyte-derived seven transmembrane domain receptor, NPYRL, SDF1 receptor, Stromal cell-derived factor 1 receptor

Gene ID: 7852

NCBI Accession: [NP_001008540](#)

UniProt: [P61073](#)

Pathways: [Regulation of Cell Size, CXCR4-mediated Signaling Events](#)

Application Details

Application Notes: ELISA. Western Blot: 5 - 1 μ g/mL. Immunocytochemistry.
Other applications not tested.
Optimal dilutions are dependent on conditions and should be determined by the user.

Restrictions: For Research Use only

Handling

Buffer: PBS containing 0.02 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

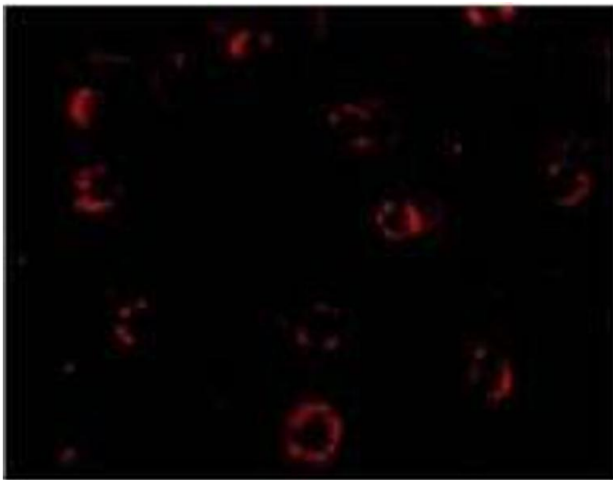
Storage: 4 °C

Storage Comment: Store the antibody undiluted at 2-8 °C.



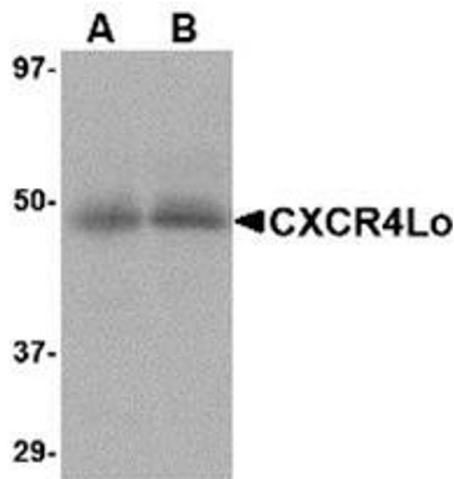
Immunohistochemistry (Frozen Sections)

Image 1. Immunohistochemistry of CXCR4Lo in HeLa cells with CXCR4Lo antibody at 2 µg/ml.



Immunofluorescence

Image 2. Immunofluorescence of CXCR4-Lo in HeLa cells with CXCR4-Lo Antibody at 4 µg/ml.



Western Blotting

Image 3. Western blot analysis of CXCR4 in (A) human spleen and (B) human thymus tissue lysate with AP30268PU-N CXCR4-Lo antibody at 10 µg/ml.