

Datasheet for ABIN499696

anti-CXCR4 antibody (N-Term)**2** Images[Go to Product page](#)

Overview

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

Product Details

Immunogen:	Human CXCR4 (N-Terminus) Peptide
Isotype:	IgG
Specificity:	CXCR4 antibody was raised against a peptide corresponding to amino acids near the amino terminus of human CXCR4.
Purification:	DEAE

Target Details

Target:	CXCR4
Alternative Name:	CD184 / CXCR4 (CXCR4 Products)

Target Details

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 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. 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_003458
UniProt:	P61073
Pathways:	Regulation of Cell Size, CXCR4-mediated Signaling Events

Application Details

Application Notes:	ELISA. Western Blot: 1 - 2 μ g/mL. Immunocytochemistry: 10 μ g/mL. Immunoprecipitation: 10 μ g/mL. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

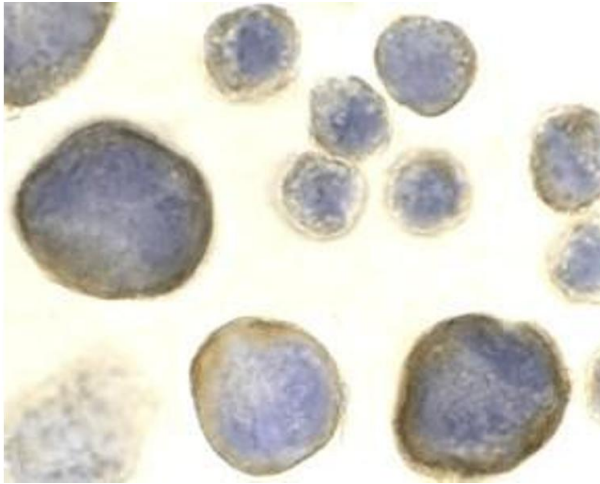
Handling

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

Handling

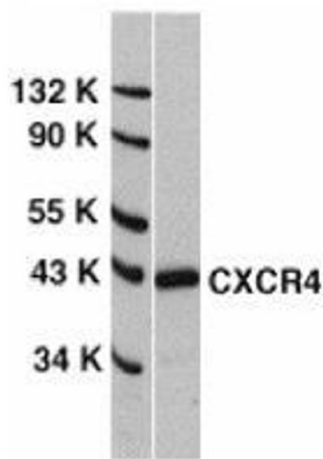
Storage Comment: Store the antibody undiluted at 2-8 °C.

Images



Immunofluorescence

Image 1. Immunocytochemistry of CXCR4 in HeLa cells with AP30266PU-N CXCR4 antibody at 2 µg/ml.



Western Blotting

Image 2. Western blot analysis of CXCR4 in HeLa whole cell lysate with AP30266PU-N CXCR4 antibody at 0.5 µg/ml.