

Basic Information

Product Name	Anti-CXCR4 Antibody	
Gene Name	CXCR4	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, FCM, ELISA	
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.	
Immunogen	E.coli-derived human CXCR4 recombinant protein (Position: D20-S352).	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	40-50 kDa	
Dilution Ratios	Western blot (WB):	1:500-2000
	Flow Cytometry (Fixed):	1:50-200
	Enzyme linked immunosorbent assay (ELISA):	1:100-1000

Storage

12 months from date of receipt, -20°C as supplied.

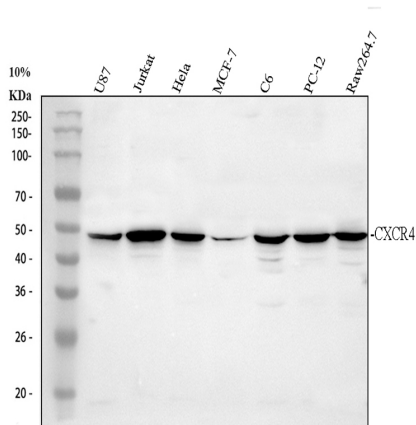
Background Information

CXCR4 (Chemokine, CXC Motif, Receptor 4), also known as FUSIN or NPY3R, is a protein that in humans is encoded by the CXCR4 gene. It is the receptor for the CXC chemokine SDF1 that has essential functions on embryo organogenesis, immunological functions and T lymphocyte trafficking. CXCR4 is the only SDF1 receptor identified so far. This suggests that CXCR4 expression is critical for the biological effects of SDF1. CXCR4 is also a seven-transmembrane-spanning, G-protein-coupled receptor for the CXC chemokine PBSF/SDF-1. It functions as a co-receptor for T-cell-line tropic human immunodeficiency virus HIV-1. It was concluded that PBSF/SDF-1 and CXCR4 define a new signalling system for organ vascularization.

Reference

Anti-CXCR4 Antibody 被引用在6文献中。

Selected Validation Data



Western blot analysis of CXCR4 using anti-CXCR4 antibody

(A00031-4). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human U87 whole cell lysates,

Lane 2: human Jurkat whole cell lysates,

Lane 3: human Hela whole cell lysates,

Lane 4: human MCF-7 whole cell lysates,

Lane 5: rat C6 whole cell lysates,

Lane 6: rat PC-12 whole cell lysates,

Lane 7: mouse RAW264.7 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-CXCR4 antigen

affinity purified polyclonal antibody (A00031-4) at a dilution of

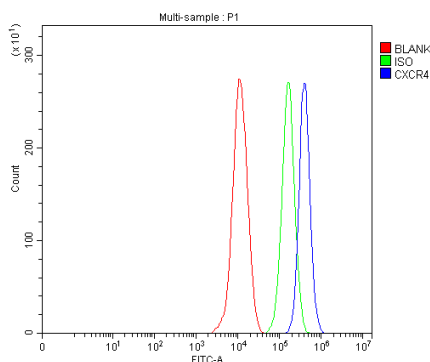
1:1000 and probed with a goat anti-rabbit IgG-HRP secondary

antibody (Catalog # BA1054). The signal is developed using ECL Plus

Western Blotting Substrate (Catalog # AR1197). A specific band was

detected for CXCR4 at approximately 40-50 kDa. The expected band

size for CXCR4 is at 40 kDa.



Flow Cytometry analysis of THP-1 cells using anti-CXCR4 antibody (A00031-4).

Overlay histogram showing THP-1 cells stained with A00031-4 (Blue

line). The cells were fixed with 4% paraformaldehyde and blocked

with 10% normal goat serum. And then incubated with rabbit anti-

CXCR4 Antibody (A00031-4) at 1:100 dilution for 30 min at 20°C.

Fluoro488 conjugated goat anti-rabbit IgG (BA1127) was used as

secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype

control antibody (Green line) was rabbit IgG at 1:100 dilution used

under the same conditions. Unlabelled sample without incubation

Product datasheet

Anti-CXCR4 Antibody

Catalog Number: **A00031-4**



antibody and ELISA experts

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with primary antibody and secondary antibody (Red line) was used as a blank control.