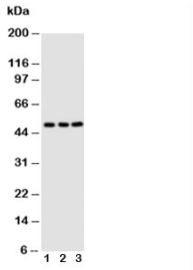
CXCR4 Antibody (R31192)

Catalog No.	Formulation	Size
R31192	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	P61073
Applications	Western blot: 0.5-1ug/ml
Limitations	This CXCR4 antibody is available for research use only.



Western blot testing of CXCR4 antibody; Lane 1: M231; 2: MCF-7; 3: Jurkat cell lysate. Predicted molecular weight ~40 kDa but may be observed at higher molecular weights due to glycosylation.

Description

Chemokine,CXC Motif, Receptor 4, also known as FUSIN or NPY3R, is a protein that in humans is encoded by the CXCR4 gene. By PCR analysis of human/hamster hybrid cell DNA, Herzog et al.(1993) showed that the NPY3R gene is located on human chromosome 2. Feng et al.(1996) showed that transient expression of the gene allowed nonhuman cells coexpressing recombinant CD4 to undergo Env-CD4-mediated cell fusion and productive HIV-1 infection. Peled et al.(1999) demonstrated that SDF1 and its receptor CXCR4 are critical for murine bone marrow engraftment by human SCID repopulating stem cells. Treatment of human cells with anti-CXCR antibodies prevented engraftment.

Application Notes

Titration of the CXCR4 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Amino acids 31-43 (EENANFNKIFLPT) were used as the immunogen for this CXCR4 antibody.

Storage

After reconstitution, the CXCR4 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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