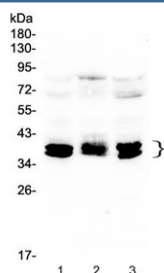


CXCR4 Antibody (RQ4914)

Catalog No.	Formulation	Size
RQ4914	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
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P61073
Applications	Western Blot : 0.5-1ug/ml Direct ELISA : 0.1-0.5ug/ml
Limitations	This CXCR4 antibody is available for research use only.



Western blot testing of human 1) HEK293, 2) PC-3 and 3) HeLa lysate with CXCR4 antibody at 0.5ug/ml. Predicted molecular weight ~40 kDa but may be observed at higher molecular weights due to glycosylation.

Description

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.

Application Notes

Optimal dilution of the CXCR4 antibody should be determined by the researcher.

Immunogen

Amino acids K68-R322 from the human protein were used as the immunogen for the CXCR4 antibody.

Storage

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