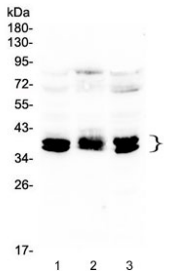
CXCR4 Antibody (RQ4914)

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
Host	Rabbit
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 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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