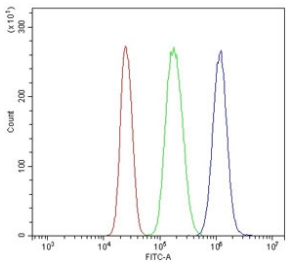
CXCR4 Antibody (RQ6378)

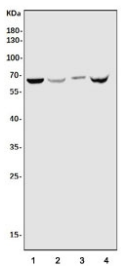
Catalog No.	Formulation	Size
RQ6378	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P61073
Applications	Western Blot : 0.5-1ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This CXCR4 antibody is available for research use only.



Flow cytometry testing of human U937 cells with CXCR4 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= CXCR4 antibody.



Western blot testing of human 1) HeLa, 2) HL60, 3) SH-SY5Y and 4) HEK293 cell lysate with CXCR4 antibody. 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

Recombinant human protein (amino acids G19-R334) was 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.