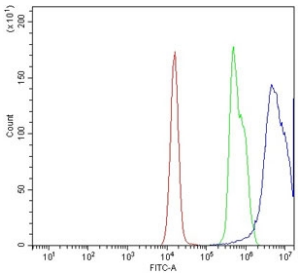
CXCR4 Antibody (RQ6466)

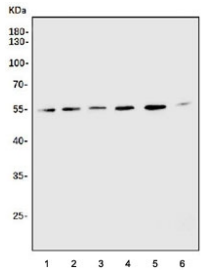
Catalog No.	Formulation	Size
RQ6466	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P61073
Applications	Western Blot : 1-2ug/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 JK-1 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 1) rat thymus, 2) rat spleen, 3) rat C6, 4) mouse RAW264.7, 5) human HeLa and 6) human Jurkat 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 signaling system for organ vascularization.

Application Notes

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

Immunogen

An E. coli-derived human protein (amino acids D20-S352) 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.

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