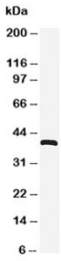
CXCR4 Antibody (R30338)

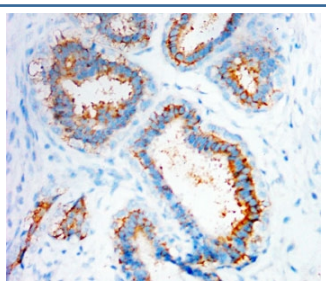
Catalog No.	Formulation	Size
R30338	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
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
Localization	Cytoplasmic
Applications	Western Blot : 0.5-1ug/ml IHC (FFPE) : 0.5-1ug/ml
Limitations	This CXCR4 antibody is available for research use only.



Western blot testing of CXCR4 antibody and HeLa cell lysate. Predicted molecular weight ~40 kDa but may be observed at higher molecular weights due to glycosylation.



IHC-P: CXCR4 antibody testing of human mammary cancer tissue.

Description

Chemokine CXC Motif Receptor 4 is the receptor for the CXC chemokine SDF1 that has essential functions on embryo organogenesis, immunological functions and T lymphocyte trafficking. It is the only SDF1 receptor identified so far. This suggests that expression is critical for the biological effects of SDF1. CXCR4 is 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. Tachibana et al.(1998) conclude that PBSF/SDF-1 and CXCR4 define a new signalling system for organ vascularization.

Application Notes

The stated application concentrations are suggested starting points. Titration of the CXCR4 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the N-terminus of the human protein (SGDYDSMKEPCFREEN) was 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.