

Product datasheet for **TA336493**

CXCR4 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	FC, ICC/IF, IHC, WB
Recommended Dilution:	Flow Cytometry, Immunocytochemistry/ Immunofluorescence: 1:50, Immunohistochemistry-Paraffin: 1:200-1:1000, Immunohistochemistry: 1:200-1:1000, Western Blot: 1:5000, Immunohistochemistry-Frozen
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	A synthetic peptide made to a C-terminal region of the human CXCR4 protein (within residues 300-352). [Swiss-Prot P61073]
Formulation:	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Whole antisera
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	C-X-C motif chemokine receptor 4
Database Link:	NP_003458 Entrez Gene 12767 Mouse Entrez Gene 60628 Rat Entrez Gene 7852 Human P61073



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Background: CXCR4 (C-X-C chemokine receptor type 4) is a member of GPCR1 family and is expressed as a multipass membrane protein in several tissues wherein it acts as a receptor for the C-X-C chemokine CXCL12/SDF-1 that transduces a signal by increasing intracellular calcium ion levels and enhancing MAPK1/MAPK3 activation. CXCR4 acts as a receptor for extracellular ubiquitin; leading to enhanced intracellular calcium ions and reduced cellular cAMP levels. CXCR4 is involved in hematopoiesis, cardiac ventricular septum formation and plays an essential role in vascularization of the gastrointestinal tract via regulating vascular branching and/or remodeling processes in endothelial cells. CXCR4 is involved in cerebellar development and mediate hippocampal-neuron survival in CNS. It also acts as a coreceptor (CD4 being the primary receptor) for HIV-1 X4 isolates and as a primary receptor for some HIV-2 isolates, and promotes Env-mediated fusion of the virus.

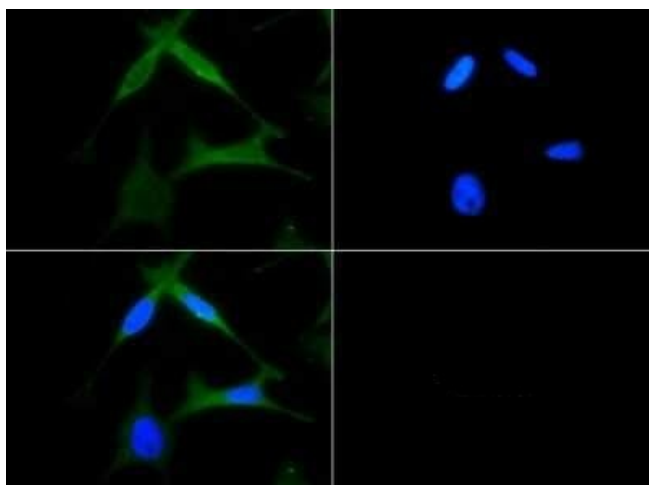
Synonyms: CD184; D2S201E; FB22; HM89; HSY3RR; LAP-3; LAP3; LCR1; LESTR; NPY3R; NPYR; NPYRL; NPY3R; WHIM

Note: This CXCR4 antibody is useful for Immunohistochemistry-paraffin embedded sections, Immunocytochemistry/Immunofluorescence and Western Blot. In Western blot a band is observed ~ 40 kDa. Prior to immunostaining paraffin tissues, antigen retrieval with sodium citrate buffer (pH 6.0) is recommended.

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, GPCR, Transmembrane

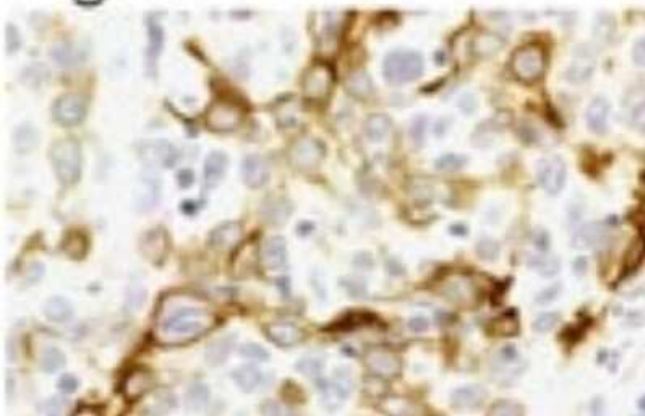
Protein Pathways: Axon guidance, Chemokine signaling pathway, Cytokine-cytokine receptor interaction, Endocytosis, Leukocyte transendothelial migration

Product images:

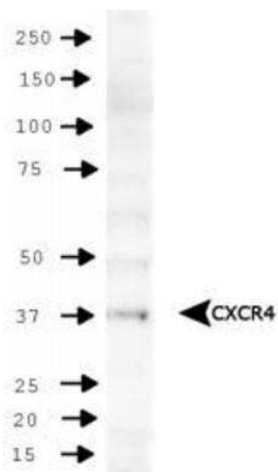


Immunocytochemistry/Immunofluorescence:
CXCR4 Antibody TA336493 - CXCR4 antibody was tested in HeLa cells with FITC (green). Nuclei were counterstained with DAPI (blue).

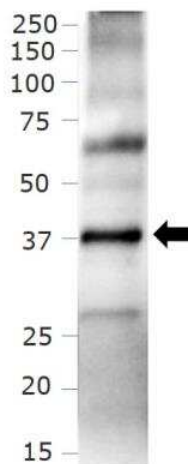
Fig. 1



Immunohistochemistry: CXCR4 Antibody TA336493 - Immunostaining of CXCR4 in human cervical carcinoma tissue sections.



Western Blot: CXCR4 Antibody TA336493 - Analysis of CXCR4 in HeLa whole cell extract.



Western Blot: CXCR4 Antibody TA336493 - Analysis of CXCR4 protein in human small intestine tissue lysate using 1:500 dilution of rabbit polyclonal CXCR4 antibody (Lot A2). The signal was developed using ECL method and the antibody generated a specific band of CXCR4 at ~40 kDa position.