

## Product datasheet for **TA336837**

### CXCR4 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	Simple Western, WB
Recommended Dilution:	Simple Western: 1:25, Western Blot: 2 ug/ml
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	A synthetic peptide made to a C-terminal portion of the human CXCR4 protein (between residues 300-352) [UniProt P61073]
Formulation:	PBS, 0.05% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Immunogen affinity purified
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:	<a href="#">NP_003458</a> <a href="#">Entrez Gene 7852 Human P61073</a>



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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; NPYY3R; WHIM

**Note:** This CXCR4 antibody is useful for Western blot, where a band is seen ~45 kDa.

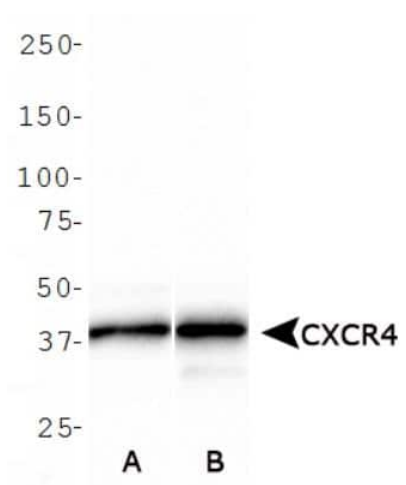
**Protein Families:** Druggable Genome, ES Cell Differentiation/IPS, GPCR, Transmembrane

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

### Product images:



Simple Western: CXCR4 Antibody TA336837 - Lane view shows a specific band for CXCR4 in 1.0 mg/ml of HeLa lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



Western Blot: CXCR4 Antibody TA336837 - Analysis of CXCR4 in (A) HeLa and (B) A431 cell lysate.