

Fusin Polyclonal Antibody

Catalog No: YT1800

Reactivity: Human; Mouse; Rat

Applications: WB;IF;ELISA

Target: CXCR4

Fields: >>Viral life cycle - HIV-1;>>Calcium signaling pathway;>>Cytokine-cytokine

receptor interaction;>>Viral protein interaction with cytokine and cytokine

receptor;>>Chemokine signaling pathway;>>Endocytosis;>>Axon

guidance;>>Leukocyte transendothelial migration;>>Intestinal immune network for IgA production;>>Regulation of actin cytoskeleton;>>Human cytomegalovirus infection;>>Human immunodeficiency virus 1 infection;>>Pathways in cancer

Gene Name: CXCR4

Protein Name: C-X-C chemokine receptor type 4

P61073

P70658

Human Gene Id: 7852

Human Swiss Prot

No:

Mouse Gene Id: 12767

Mouse Swiss Prot

No:

Rat Swiss Prot No: 008565

Immunogen: The antiserum was produced against synthesized peptide derived from human

CXCR4. AA range:300-349

Specificity: Fusin Polyclonal Antibody detects endogenous levels of Fusin protein.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source : Polyclonal, Rabbit, IgG

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Dilution: WB 1:500 - 1:2000. IF 1:200 - 1:1000. ELISA: 1:40000. Not yet tested in other

applications.

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 36kD

Cell Pathway: Cytokine-cytokine receptor interaction; Chemokine; Endocytosis; Axon

guidance;Leukocyte transendothelial migration;Intestinal immune network for IgA

production;

Background: C-X-C motif chemokine receptor 4(CXCR4) Homo sapiens This gene encodes a

CXC chemokine receptor specific for stromal cell-derived factor-1. The protein has 7 transmembrane regions and is located on the cell surface. It acts with the CD4 protein to support HIV entry into cells and is also highly expressed in breast cancer cells. Mutations in this gene have been associated with WHIM (warts, hypogammaglobulinemia, infections, and myelokathexis) syndrome. Alternate

transcriptional splice variants, encoding different isoforms, have been

characterized. [provided by RefSeq, Jul 2008],

Function: alternative products:Additional isoforms seem to exist, caution:Was originally

(PubMed:8329116 and PubMed:8234909) thought to be a receptor for neuropeptide Y type 3 (NPY3R) (NPY3-R)., disease: Defects in CXCR4 are a

cause of WHIM syndrome [MIM:193670]; also called warts,

hypogammaglobulinemia, infections, and myelokathexis. WHIM syndrome is an

immunodeficiency disease characterized by neutropenia,

hypogammaglobulinemia and extensive human papillomavirus (HPV) infection. Despite the peripheral neutropenia, bone marrow aspirates from affected

individuals contain abundant mature myeloid cells, a condition termed

myelokathexis.,domain:The amino-terminus is critical for ligand binding. Residues in all four extracellular regions contribute to HIV-1 coreceptor

in all four extracellular regions contribute to the receptor

activity.,function:Receptor for the C-X-C chemokine CXCL12/SDF-1. Transduces

a signal by increasing the intracellular calcium ions level.

Subcellular Location:

Expression:

Cell membrane ; Multi-pass membrane protein . Cell junction. Early endosome. Late endosome. Lysosome. In unstimulated cells, diffuse pattern on plasma

membrane. On agonist stimulation, colocalizes with ITCH at the plasma

membrane where it becomes ubiquitinated. In the presence of antigen, distributes to the immunological synapse forming at the T-cell-APC contact area, where it localizes at the peripheral and distal supramolecular activation cluster (SMAC).

Expressed in numerous tissues, such as peripheral blood leukocytes, spleen,

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thymus, spinal cord, heart, placenta, lung, liver, skeletal muscle, kidney, pancreas, cerebellum, cerebral cortex and medulla (in microglia as well as in astrocytes), brain microvascular, coronary artery and umbilical cord endothelial cells. Isoform 1 is predominant in all tissues tested.

Tag: orthogonal,hot

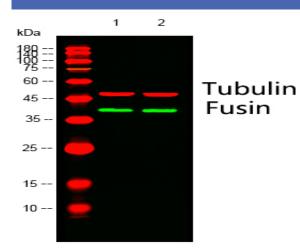
Sort:

No4: 1

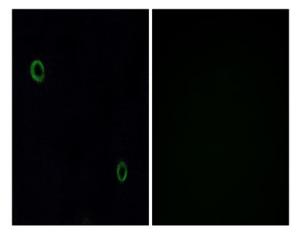
Host: Rabbit

Modifications: Unmodified

Products Images

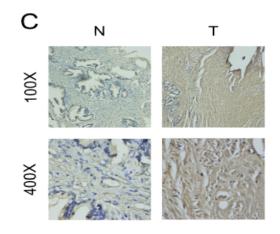


Western blot analysis of lysates from 1) Hela, 2) mouse-brain cells, (Green) primary antibody was diluted at 1:1000, 4° over night, Dylight 800 secondary antibody(Immunoway:RS23920)was diluted at 1:10000, 37° 1hour. (Red) Tubulin β Monoclonal Antibody(5G3) (Immunoway:YM3030) antibody was diluted at 1:5000 as loading control, 4° over night,Dylight 680 secondary antibody(Immunoway:RS23710)was diluted at 1:10000, 37° 1hour.



Immunofluorescence analysis of A549 cells, using CXCR4 Antibody. The picture on the right is blocked with the synthesized peptide.





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