



CXCR-7 Rabbit mAb

Catalog No	YP-rAb-17209
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB,IF,ELISA
Gene Name	CXCR7
Protein Name	C-X-C chemokine receptor type 7
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	WB 1:2000-1:10000; IF 1:200-1:1000; ELISA 1:5000-1:20000;
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15° C to -25° C/1 year(Do not lower than -25° C)
Synonyms	CXCR7 ; CMKOR1 ; GPR159 ; RDC1 ; C-X-C chemokine receptor type 7 ; CXCR7 ; CXCR-7 ; Chemokine orphan receptor 1 ; G-protein coupled receptor 159 ; G-protein coupled receptor RDC1 homolog ; RDC-1
Observed Band	42kD
Calculated Molecular Weight	41kD
Cell Pathway	Cell membrane ; Multi-pass membrane protein . Early endosome . Recycling endosome . Predominantly localizes to endocytic vesicles, and upon stimulation by the ligand is internalized via clathrin-coated pits in a beta-arrestin-dependent manner. Once internalized, the ligand dissociates from the receptor, and is targeted to degradation while the receptor is recycled back to the cell membrane. .
Tissue Specificity	Expressed in monocytes, basophils, B-cells, umbilical vein endothelial cells (HUVEC) and B-lymphoblastoid cells. Lower expression detected in CD4+ T-lymphocytes and natural killer cells. In the brain, detected in endothelial cells and capillaries, and in mature neurons of the frontal cortex and hippocampus. Expressed in tubular formation in the kidney. Highly expressed in astroglial tumor endothelial, microglial and glioma cells. Expressed at low levels in normal CD34+ progenitor cells, but at very high levels in several myeloid malignant cell lines. Expressed in breast carcinomas but not in normal breast tissue (at protein level).
Function	Caution:Was originally (PubMed:1675791) thought to be the receptor for VIP.,Function:Receptor for CXCL12/SDF1. Acts as coreceptor with CXCR4 for a

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restricted number of HIV isolates.,online information:CXC chemokine receptors entry,similarity:Belongs to the G-protein coupled receptor 1 family.,tissue specificity:Expressed in monocytes, basophils, and B-cells. Lower expression in CD4+ T-lymphocytes and natural killer cells.,

Background

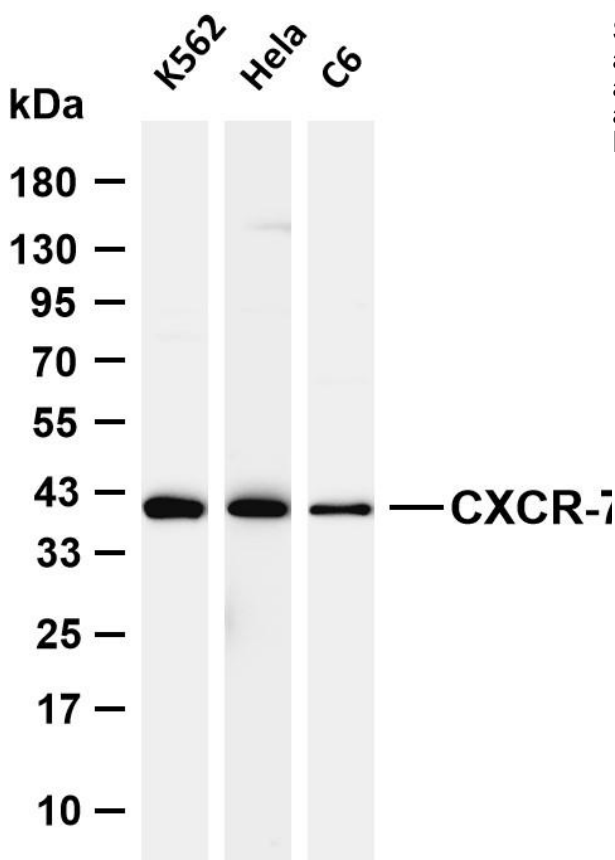
This gene encodes a member of the G-protein coupled receptor family. Although this protein was earlier thought to be a receptor for vasoactive intestinal peptide (VIP), it is now considered to be an orphan receptor, in that its endogenous ligand has not been identified. The protein is also a coreceptor for human immunodeficiency viruses (HIV). Translocations involving this gene and HMGA2 on chromosome 12 have been observed in lipomas. [provided by RefSeq, Jul 2008],

matters needing attention

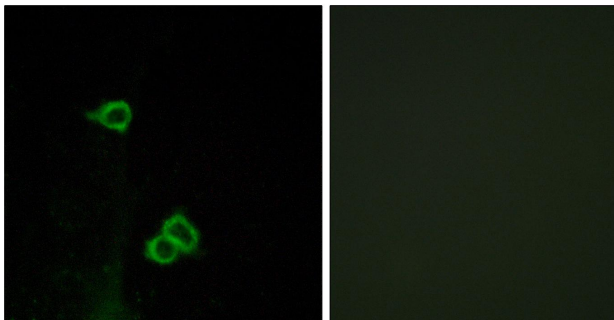
Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-CXCR-7 antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: K562 Lane 2: HeLa Lane 3: C6
Predicted band size: 41kDa Observed band size: 42kDa



Immunofluorescence analysis of COS7 cells, using CXCR7 Antibody. The picture on the right is blocked with the synthesized peptide.

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