

Rabbit CXCR7 Polyclonal Antibody | anti-CXCR7 antibody

CXCR7 Antibody

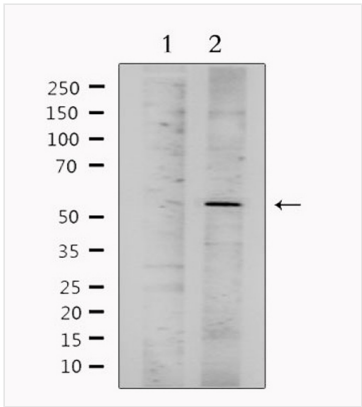
CATALOG # AAA325476	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunocytochemistry, Immunofluorescence, Western Blot
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PRODUCT SYNONYMS

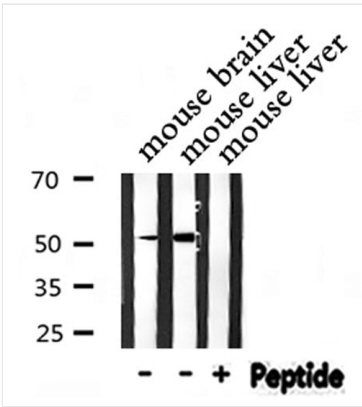
CXCR7; Polyclonal Antibody; CXCR7 Antibody; ACKR3; atypical chemokine receptor 3; C X C chemokine receptor type 7; C-X-C chemokine receptor type 7; Chemokine (C-X-C motif) receptor 7; Chemokine C X C motif receptor 7; Chemokine orphan receptor 1; CMKOR1; CXC R7; CXC-R7; CXCR 7; CXCR-7; CXCR7_HUMAN; G protein coupled receptor 159; G protein coupled receptor; G protein coupled receptor RDC1 homolog; G-protein coupled receptor 159; G-protein coupled receptor RDC1 homolog; GPR159; GPRN1; RDC 1; RDC-1; RDC1; anti-CXCR7 antibody

PRODUCT SPECIFICATIONS

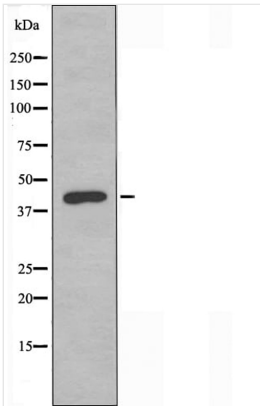
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	CXCR7 antibody detects endogenous levels of total CXCR7
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	362
Applicable Applications for anti-CXCR7 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	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).
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



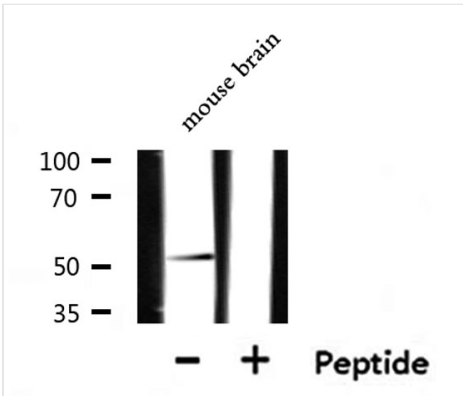
WB (Western Blot)
Western blot analysis of extracts from mouse lung, using CXCR7 Antibody. Lane 1 was treated with the antigen-specific peptide.



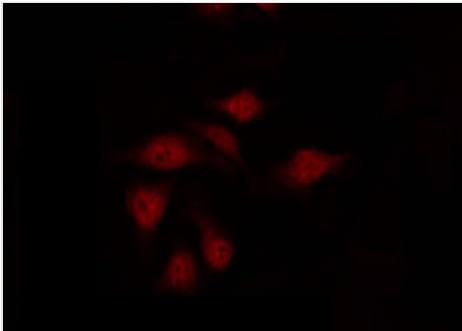
WB (Western Blot)
Western blot analysis of CXCR7 expression in various lysates



WB (Western Blot)
Western blot analysis of extracts from COS-7 cells, using CXCR7 antibody.



WB (Western Blot)
Western blot analysis of extracts from Mouse brain lysate, using CXCR7 antibody.



IF (Immunofluorescence)
AAA325476 staining HepG2 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-CXCR7 antibody

Function: Atypical chemokine receptor that controls chemokine levels and localization via high-affinity chemokine binding that is uncoupled from classic ligand-driven signal transduction cascades, resulting instead in chemokine sequestration, degradation, or transcytosis. Also known as interceptor (internalizing receptor) or chemokine-scavenging receptor or chemokine decoy receptor. Acts as a receptor for chemokines CXCL11 and CXCL12/SDF1. Chemokine binding does not activate G-protein-mediated signal transduction but instead induces beta-arrestin recruitment, leading to ligand internalization and activation of MAPK signaling pathway. Required for regulation of CXCR4 protein levels in migrating interneurons, thereby adapting their chemokine responsiveness. In glioma cells, transduces signals via MEK/ERK pathway, mediating resistance to apoptosis. Promotes cell growth and survival. Not involved in cell migration, adhesion or proliferation of normal hematopoietic progenitors but activated by CXCL11 in malignant hematopoietic cells, leading to phosphorylation of ERK1/2 (MAPK3/MAPK1) and enhanced cell adhesion and migration. Plays a regulatory role in CXCR4-mediated activation of cell surface integrins by CXCL12. Required for heart valve development. Acts as coreceptor with CXCR4 for a restricted number of HIV isolates. Subunit Structure: Homodimer. Can form heterodimers with CXCR4; heterodimerization may regulate CXCR4 signaling activity. Interacts with ARRB1 and ARRB2. Post-translational Modifications: The Ser/Thr residues in the C-terminal cytoplasmic tail may be phosphorylated. Ubiquitinated at the Lys residues in its C-terminal cytoplasmic tail and is essential for correct trafficking from and to the cell membrane. Deubiquitinated by CXCL12-stimulation in a reversible manner. Similarity: The C-terminal cytoplasmic tail, plays a key role in: correct trafficking to the cell membrane, recruitment of beta-arrestin, ubiquitination, and in chemokine scavenging and signaling functions. The Ser/Thr residues and the Lys residues in the C-terminal cytoplasmic tail are essential for beta-arrestin recruitment and ubiquitination respectively. Belongs to the G-protein coupled receptor 1 family. Atypical chemokine receptor subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	31083344
NCBI GeneID	57007
NCBI Accession #	NP_064707.1
NCBI GenBank Nucleotide #	NM_020311.2
UniProt Accession #	P25106 ; Q53RV4 ; Q8NE10 ; Q92938 ; Q92986 ; A8K6J4
Molecular Weight	Observed: 41 kD Predicted: 42 kDa
NCBI Official Full Name	atypical chemokine receptor 3
NCBI Official Synonym Full Names	atypical chemokine receptor 3
NCBI Official Symbol	ACKR3
NCBI Official Synonym Symbols	RDC1; CXCR7; RDC-1; CMKOR1; CXC-R7; CXCR-7; GPR159
NCBI Protein Information	atypical chemokine receptor 3
UniProt Protein Name	Atypical chemokine receptor 3
UniProt Gene Name	ACKR3
UniProt Synonym Gene Names	CMKOR1; CXCR7; GPR159; RDC1; CXC-R7; CXCR-7; RDC-1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cxcr7-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/325476>