CXCR7 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CXCR7, Polyclonal Antibody
Full Product Name	CXCR7, CT (G-protein Coupled Receptor 159, Chemokine Orphan Receptor 1, G-protein Coupled Receptor RDC1 Homolog, RDC-1, C-X-C Chemokine Receptor Type 7, CXC-R7, CXCR-7, CMKOR1, GPR159, RDC1) (MaxLight 750)
Product Gene Name	anti-CXCR7 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human CXCR7. Species Crossreactivity: mouse.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	41,493 Da
Chromosome Location	Chromosome: 2; NC_000002.11 (237478380..237490997). Location: 2q37.3
OMIM	610376
3D Structure	ModBase 3D Structure for P25106
Immunogen	Synthetic peptide selected from the C-term region of human CXCR7 (KLH).
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-CXCR7 antibody	Antibodies; G Protein Receptors
Applications Tested/Suitable for anti-CXCR7 antibody	Western Blot (WB), FLISA
Application Notes for anti-CXCR7 antibody	WB: 1:100-1:500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-CXCR7 antibody	MBS6471117 is an antibody targeting CXCR7. Also known as CXCR7, CT (G-protein Coupled Receptor 159, Chemokine Orphan Receptor 1, G-protein Coupled Receptor RDC1 Homolog, RDC-1, C-X-C Chemokine Receptor Type 7, CXC-R7, CXCR-7, CMKOR1, GPR159, RDC1) (MaxLight 750). Reactive in Human, Mouse. Host: Rabbit.
Product References and Citations for anti-CXCR7 antibody	1. Sreedharan, S.P., et.al., Proc. Natl. Acad. Sci. USA 88(11), 4986-4990 (1991).

Other Notes	Small volumes of anti-CXCR7 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CXCR7. It may not necessarily be applicable to this product.

NCBI GI #	31083344
NCBI GeneID	57007
NCBI Accession #	NP_064707.1
UniProt Primary Accession #	P25106
UniProt Secondary Accession #	Q53RV4; Q8NE10; Q92938; Q92986; A8K6J4
UniProt Related Accession #	P25106
GenBank Nucleotide #	NM_020311.2
NCBI Official Full Name	C-X-C chemokine receptor type 7
NCBI Official Synonym Full Names	chemokine (C-X-C motif) receptor 7
NCBI Official Symbol	CXCR7
NCBI Official Synonym Symbols	RDC1; RDC-1; CMKOR1; CXC-R7; CXCR-7; GPR159
UniProt Protein Name	C-X-C chemokine receptor type 7
UniProt Synonym Protein Names	Chemokine orphan receptor 1; G-protein coupled receptor 159; G-protein coupled receptor RDC1 homolog
UniProt Gene Name	CXCR7
UniProt Synonym Gene Names	CMKOR1; GPR159; RDC1; CXC-R7; CXCR-7; RDC-1
UniProt Entry Name	CXCR7_HUMAN
NCBI Protein Information	C-X-C chemokine receptor type 7; G protein-coupled receptor; chemokine orphan receptor 1; G-protein coupled receptor 159; G-protein coupled receptor RDC1 homolog
NCBI Summary for CXCR7	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]

UniProt Comments for CXCR7	CMKOR1: Receptor for chemokines CXCL12/SDF1 and CXCL11. Does not elicit classical chemokine receptor signaling; 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. Acts as a scavenger for CXCL12/SDF1 and, to a lesser extent, for CXCL11. 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 hemapoietic 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. Belongs to the G-protein coupled receptor 1 family. Protein type: GPCR, family 1; Receptor, GPCR; Membrane protein, integral; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 2q37.3 Cellular Component: recycling endosome; cell surface; perinuclear region of cytoplasm; early endosome; plasma membrane; integral to membrane; coated pit; endosome Molecular Function: C-X-C chemokine binding; protein binding; coreceptor activity; scavenger receptor activity; C-X-C chemokine receptor activity Biological Process: G-protein coupled receptor protein signaling pathway; viral reproduction; receptor internalization; angiogenesis; cell adhesion; vasculogenesis; chemotaxis
Research Articles on CXCR7	**1.** These results suggest that melanocytes may have a unique mechanism of migration via SDF1/CXCR7 signaling that is different from that of other cell types.
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