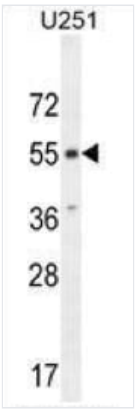
CMKOR1 (ACKR3) Antibody – Rabbit Polyclonal

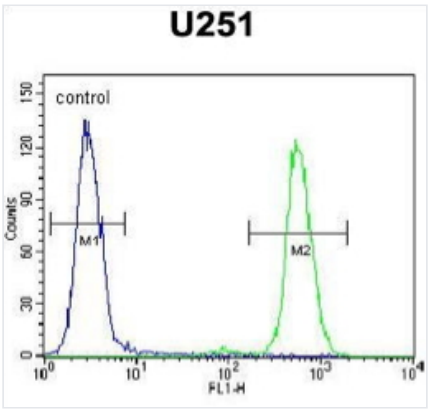
PRODUCT OVERVIEW

Product Name	CMKOR1 (ACKR3), Polyclonal Antibody
Full Product Name	CMKOR1, CT (CXCR7, CMKOR1, GPR159, RDC1, C-X-C chemokine receptor type 7, Chemokine orphan receptor 1, G-protein coupled receptor 159, G-protein coupled receptor RDC1 homolog)
Product Gene Name	anti-ACKR3 antibody
Product Synonym Names	Anti -CMKOR1, CT (CXCR7, CMKOR1, GPR159, RDC1, C-X-C chemokine receptor type 7, Chemokine orphan receptor 1, G-protein coupled receptor 159, G-protein coupled receptor RDC1 homolog)
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2, 0.09% sodium azide.
Purity/Purification	Affinity Purified Purified by Protein A affinity chromatography.
Specificity	Human
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	41,493 Da
Chromosome Location	Chromosome: 2; NC_000002.11 (237469424..237491001). Location: 2q37.3
OMIM	610376
3D Structure	ModBase 3D Structure for P25106
Immunogen	CMKOR1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 340-370 amino acids from the C-terminal region of human CMKOR1.
Product Categories/Family for anti-ACKR3 antibody	Antibodies; Abs to G Protein Receptors
Applications Tested/Suitable for anti-ACKR3 antibody	ELISA (EL/EIA), Western Blot (WB), Flow Cytometry (FC/FACS)
Application Notes for anti-ACKR3 antibody	Suitable for use in Western Blot, Flow Cytometry, ELISA Dilution: ELISA: 1:1,000 Western Blot: 1:100-500 Flow Cytometry: 1:10-50
Related Product Information for anti-ACKR3 antibody	CXCR7 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].
Other Notes	Small volumes of anti-ACKR3 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.

Searchable Terms for ACKR3 purchase	MBS6008553 is an antibody targeting ACKR3. Also known as CMKOR1, CT (CXCR7, CMKOR1, GPR159, RDC1, C-X-C chemokine receptor type 7, Chemokine orphan receptor 1, G-protein coupled receptor 159, G-protein coupled receptor RDC1 homolog). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-ACKR3 antibody
Western Blot analysis in U251 cell line lysates (35ug/lane) using MBS6008553. This demonstrates that MBS6008553 detected the CMKOR1 protein (arrow).



Flow Cytometry (FC/FACS) of anti-ACKR3 antibody
Flow Cytometric analysis of U251 cells using MBS6008553 (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ACKR3. 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	atypical chemokine receptor 3
NCBI Official Symbol	ACKR3
NCBI Official Synonym Symbols	RDC1; CXCR7; 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
Protein Family	Atypical chemokine receptor
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; chemokine (C-X-C motif) receptor 7; G-protein coupled receptor RDC1 homolog

NCBI Summary for ACKR3	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 ACKR3	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: Membrane protein, multi-pass; Receptor, GPCR; GPCR, family 1; Membrane protein, integral Chromosomal Location of Human Ortholog: 2q37.3 Cellular Component: recycling endosome; cell surface; perinuclear region of cytoplasm; early endosome; integral to membrane; plasma 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; chemotaxis; cell adhesion; vasculogenesis
Research Articles on ACKR3	**1.** CXCR7 is induced during monocyte-to-macrophage differentiation, which is required for SDF-1 and I-TAC signaling to JNK and p38 pathways, leading to enhanced macrophage phagocytosis
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