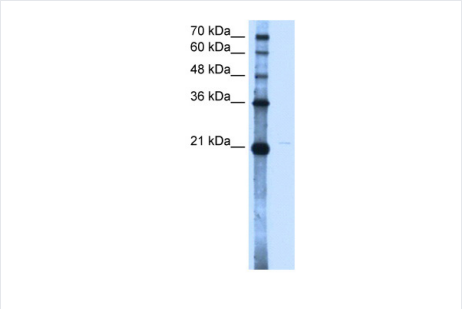
OLR1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	OLR1, Polyclonal Antibody
Full Product Name	OLR1 antibody - N-terminal region
Product Gene Name	anti-OLR1 antibody
Product Synonym Gene Name	CLEC8A; LOX1; SCARE1; LOXIN; SLOX1
Immunogen Sequence	Synthetic peptide located within the following region: QANLTHQKKK LEGQISARQQ AEEASQESEN ELKEMIETLA RKLNEKSKEQ
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Purity/Purification	Protein A purified
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	OLR1 peptide (MBS3232679) is used for blocking the activity of OLR1 antibody (MBS3207713)
Molecular Weight	20kDa
OMIM	602601
3D Structure	ModBase 3D Structure for P78380
Homology	Human: 100%
Immunogen	The immunogen is a synthetic peptide directed towards the N terminal region of human OLR1
Product Categories/Family for anti-OLR1 antibody	Polyclonal; Drugs and Drug Metabolism; Disease Related; Receptors
Applications Tested/Suitable for anti-OLR1 antibody	Western Blot (WB)
Related Product Information for anti-OLR1 antibody	This is a rabbit polyclonal antibody against OLR1. It was validated on Western Blot using a cell lysate as a positive control. Target Description: OLR1 is a receptor protein which belongs to the C-type lectin superfamily. OLR1 binds, internalizes and degrades oxidized low-density lipoprotein. This protein may be involved in the regulation of Fas-induced apoptosis. This protein may play a role as a scavenger receptor. Mutations of its gene have been associated with atherosclerosis, risk of myocardial infarction, and may modify the risk of Alzheimer's disease.
Other Notes	Small volumes of anti-OLR1 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 OLR1 purchase	MBS3207713 is an antibody targeting OLR1. Also known as OLR1 antibody - N-terminal region. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-OLR1 antibody
WB Suggested Anti-OLR1 Antibody Titration: 2.5ug/mlPositive Control: Jurkat cell lysate

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for OLR1. It may not necessarily be applicable to this product.

NCBI GI #	119616564
NCBI GeneID	4973
NCBI Accession #	EAW96158
UniProt Primary Accession #	P78380
UniProt Related Accession #	P78380
GenBank Nucleotide #	NM_001172632
NCBI Official Full Name	oxidised low density lipoprotein (lectin-like) receptor 1, isoform CRA_c
NCBI Official Synonym Full Names	oxidized low density lipoprotein receptor 1
NCBI Official Symbol	OLR1
NCBI Official Synonym Symbols	LOX1; LOXIN; SLOX1; CLEC8A; SCARE1
UniProt Protein Name	Oxidized low-density lipoprotein receptor 1
UniProt Synonym Protein Names	C-type lectin domain family 8 member A; Lectin-like oxidized LDL receptor 1; LOX-1; Lectin-like oxLDL receptor 1; hLOX-1; Lectin-type oxidized LDL receptor 1
Protein Family	Oxidized low-density lipoprotein receptor
UniProt Gene Name	OLR1
UniProt Synonym Gene Names	CLEC8A; LOX1; Ox-LDL receptor 1; LOX-1; Lectin-like oxLDL receptor 1; hLOX-1
UniProt Entry Name	OLR1_HUMAN
NCBI Protein Information	oxidized low-density lipoprotein receptor 1
NCBI Summary for OLR1	This gene encodes a low density lipoprotein receptor that belongs to the C-type lectin superfamily. This gene is regulated through the cyclic AMP signaling pathway. The encoded protein binds, internalizes and degrades oxidized low-density lipoprotein. This protein may be involved in the regulation of Fas-induced apoptosis. This protein may play a role as a scavenger receptor. Mutations of this gene have been associated with atherosclerosis, risk of myocardial infarction, and may modify the risk of Alzheimer's disease. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Feb 2010]

UniProt Comments for OLR1	OLR1: Receptor that mediates the recognition, internalization and degradation of oxidatively modified low density lipoprotein (oxLDL) by vascular endothelial cells. OxLDL is a marker of atherosclerosis that induces vascular endothelial cell activation and dysfunction, resulting in pro-inflammatory responses, pro- oxidative conditions and apoptosis. Its association with oxLDL induces the activation of NF-kappa-B through an increased production of intracellular reactive oxygen and a variety of pro- atherogenic cellular responses including a reduction of nitric oxide (NO) release, monocyte adhesion and apoptosis. In addition to binding oxLDL, it acts as a receptor for the HSP70 protein involved in antigen cross-presentation to naive T-cells in dendritic cells, thereby participating in cell-mediated antigen cross-presentation. Also involved in inflammatory process, by acting as a leukocyte-adhesion molecule at the vascular interface in endotoxin-induced inflammation. Also acts as a receptor for advanced glycation end (AGE) products, activated platelets, monocytes, apoptotic cells and both Gram-negative and Gram- positive bacteria. Independent association genetic studies have implicated OLR1 gene variants in myocardial infarction susceptibility. OLR1 may be involved in Alzheimer disease (AD). Involvement in AD is however unclear: according to some authors (PubMed:12354387, PubMed:12810610 and PubMed:15976314), variations in OLR1 modify the risk of AD, while according to other (PubMed:15000751 and PubMed:15060104) they do not. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Receptor, misc.; Membrane protein, integral Chromosomal Location of Human Ortholog: 12p13.2-p12.3 Cellular Component: nucleoplasm; intracellular membrane-bound organelle; membrane; integral to plasma membrane; plasma membrane; receptor complex; lipid raft Molecular Function: low-density lipoprotein receptor activity; protein binding; carbohydrate binding Biological Process: cell death; receptor-mediated endocytosis; leukocyte adhesion; response to hydrogen peroxide; blood circulation; lipoprotein metabolic process; proteolysis; blood coagulation; inflammatory response; leukocyte migration Disease: Myocardial Infarction, Susceptibility To
Research Articles on OLR1	**1.** LOX-1 serum levels were elevated in patients with intracerebral hemorrhage.
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