ARG55697
anti-OLR1 / LOX1 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes OLR1 / LOX1
Tested Reactivity	Hu
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	OLR1 / LOX1
Species	Human
Immunogen	KLH-conjugated synthetic peptide corresponding to aa. 64-92 (Center) of Human OLR1 / LOX1.
Conjugation	Un-conjugated
Alternate Names	Lectin-like oxidized LDL receptor 1; Lectin-type oxidized LDL receptor 1; LOX-1; CLEC8A; SLOX1; LOXIN; hLOX-1; Oxidized low-density lipoprotein receptor 1; Lectin-like oxLDL receptor 1; C-type lectin domain family 8 member A; Ox-LDL receptor 1; LOX1; SCARE1

Application Instructions

Application table

Application	Dilution
IHC-P	1:10 - 1:50
WB	1:1000

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	HUVEC

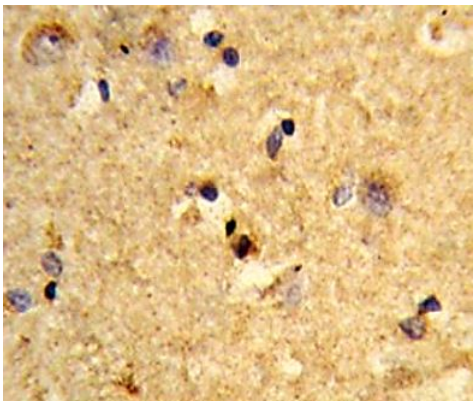
Properties

Form	Liquid
Purification	Purification with Protein A and immunogen peptide.
Buffer	PBS and 0.09% (W/V) Sodium azide.
Preservative	0.09% (W/V) Sodium azide.
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

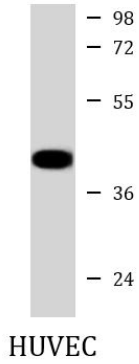
Database links	GeneID: 4973 Human Swiss-port # P78380 Human
Gene Symbol	OLR1
Gene Full Name	oxidized low density lipoprotein (lectin-like) receptor 1
Background	This gene encodes a low density lipoprotein receptor that belongs to the C-type lectin superfamily. This gene is regulated through the cyclic 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]
Function	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. [UniProt]
Calculated Mw	31 kDa
PTM	The intrachain disulfide-bonds prevent N-glycosylation at some sites. N-glycosylated.
Cellular Localization	Cell membrane; Lipid-anchor. Cell membrane; Single-pass type II membrane protein. Membrane raft. Secreted Note=A secreted form also exists. Localization to membrane rafts requires palmitoylation

Images



ARG55697 anti-OLR1 / LOX1 antibody IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human brain tissue stained with ARG55697 anti-OLR1 / LOX1 antibody.



ARG55697 anti-OLR1 / LOX1 antibody WB image

Western blot: 35 µg of HUVEC cell lysate stained with ARG55697 anti-OLR1 / LOX1 antibody at 1:1000 dilution.