

ARG81752 Mouse OLR1 / LOX1 ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81752-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81752-002	Standard	2 X 10 ng/vial	4°C
ARG81752-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81752-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81752-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81752-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81752-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81752-008	25X Wash buffer	20 ml	4°C
ARG81752-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81752-010	STOP solution	10 ml (Ready to use)	4°C
ARG81752-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81752 Mouse OLR1 / LOX1 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Mouse OLR1 / LOX1 in serum, plasma (heparin, EDTA) and cell culture supernatants.
Tested Reactivity	Ms
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	OLR1 / LOX1
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	15.6 pg/ml
Sample Type	Serum, plasma (heparin, EDTA) and cell culture supernatants.
Standard Range	31.2 - 2000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 6.1%; Inter-Assay CV: 7.2%
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

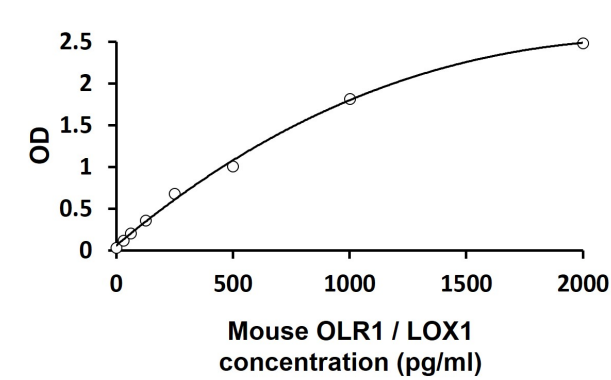
Assay Time	~ 5 hours
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Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

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]
Highlight	Related products: OLR1 antibodies ; OLR1 ELISA Kits ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
PTM	The intrachain disulfide-bonds prevent N-glycosylation at some sites. N-glycosylated. [UniProt]



ARG81752 Mouse OLR1 / LOX1 ELISA Kit standard curve image

ARG81752 Mouse OLR1 / LOX1 ELISA Kit results of a typical standard run with optical density reading at 450 nm.