



Rat Soluble Lectin-like Oxidized Low Density Lipoprotein Receptor-1(sLOX-1)ELISA Kit

Product Code	CSB-E15845r
Abbreviation	OLR1
Protein Biological Process 1	Cell Adhesion
Target Name	oxidized low density lipoprotein (lectin-like) receptor 1
Uniprot No.	O70156
Alias	CLEC8A, LOX1, SCARE1, lectin-type oxidized LDL receptor 1 oxidised low density lipoprotein (lectin-like) receptor 1 scavenger receptor class E, member 1
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Protein Biological Process 3	Cell adhesion
Sample Types	serum, plasma, tissue homogenates
Detection Range	0.156 ng/mL-10 ng/mL
Sensitivity	0.039 ng/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Cardiovascular
Gene Names	Olr1
Tag Info	quantitative
Protein Description	Sandwich
Description	This Rat OLR1 ELISA Kit was designed for the quantitative measurement of Rat OLR1 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 0.156 ng/mL-10 ng/mL and the sensitivity is 0.039 ng/mL.
Target Details	This gene encodes a receptor protein which 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. Alternative transcript variants have been described but their full-length sequence has not been determined.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of rat sLOX-1 in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

	Sample	Serum(n=4)
1:1	Average %	90
	Range %	85-94
1:2	Average %	92
	Range %	88-99
1:4	Average %	88
	Range %	84-92
1:8	Average %	95
	Range %	90-100

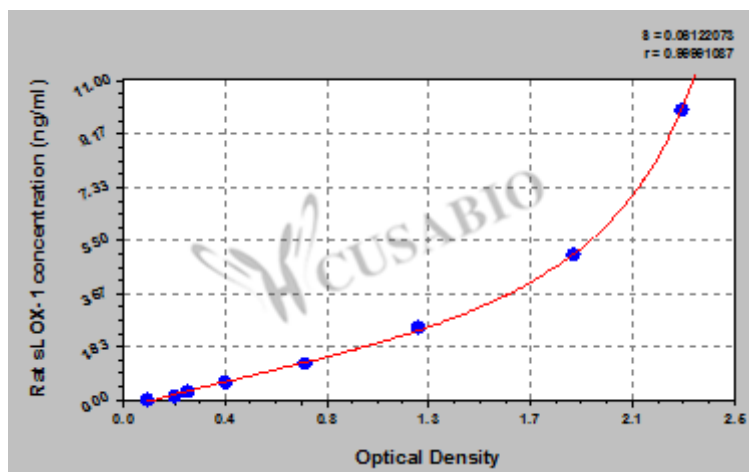
Recovery

The recovery of rat sLOX-1 spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	85	80-90
EDTA plasma (n=4)	94	90-98

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



ng/ml	OD1	OD2	Average	Corrected
10	2.375	2.227	2.301	2.190
5	1.816	1.902	1.859	1.748
2.5	1.240	1.208	1.224	1.113
1.25	0.725	0.785	0.755	0.644
0.625	0.421	0.439	0.430	0.319
0.312	0.263	0.284	0.274	0.163
0.156	0.218	0.221	0.220	0.109
0	0.109	0.112	0.111	

Msds

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