

Product datasheet for **TA318943**

LOX 1 (OLR1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 0.5-4 ug/ml, IHC: 5ug/ml
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide near the N-terminus of human Lox-1
Formulation:	100 µg (0.5 mg/ml) affinity purified rabbit anti-LOX-1 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 0.01% thimerosal.
Concentration:	lot specific
Purification:	Affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	oxidized low density lipoprotein receptor 1
Database Link:	NP_002534 Entrez Gene 108078 Mouse Entrez Gene 140914 Rat Entrez Gene 4973 Human P78380



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Background:

Lectin-like oxidized low-density-lipoprotein receptor-1 (LOX-1), also known as oxidized low-density-lipoprotein receptor-1 (OLR-1), belongs to the C-type lectin family. LOX-1 binds and supports the internalization of multiple structurally unrelated macromolecules including oxidized LDL, advanced glycation end products (AGE), activated platelets, bacteria, apoptotic or aged cells, and heat shock proteins. Human LOX-1 gene encodes a 273 amino acid residues (aa) protein with a short N-terminal intracellular domain, a transmembrane domain, an extracellular stalk/neck region followed a C-type lectin-like domain (CTLD). The expression of LOX-1 is induced by proinflammatory or proatherogenic stimuli, as well as by oxidized LDL itself and hemodynamic or oxidative stress. LOX-1-dependent oxidized LDL uptake also induces apoptosis by inducing the expression of the pro-apoptotic Bax and downregulation of the anti-apoptotic Bcl-2.

Synonyms:

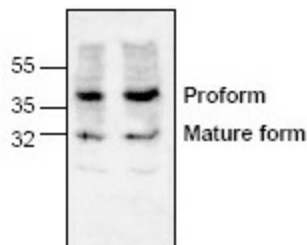
CLEC8A; LOX1; LOXIN; SCARE1; SLOX1

Protein Families:

Druggable Genome, Secreted Protein, Transmembrane

Protein Pathways:

PPAR signaling pathway

Product images:

Western blot analysis of LOX-1 expression in Jurkat cell lysate.