

Product datasheet for **SP2139P**

LOX 1 (OLR1) Sheep Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	FC, IHC, IP, WB
Recommended Dilution:	Flow Cytometry: Use 10 µl of 1/10 diluted antibody to label 1 ⁰ cells in 100 µl. Western Blot: 1/10-1/100. This antibody detects intact 50kDa LOX-1 and also a prominent 32kDa proteolytic fragment in western blotting. Immunoprecipitation: Neat. Immunohistochemistry on Frozen Sections.
Reactivity:	Human
Host:	Sheep
Clonality:	Polyclonal
Immunogen:	Recombinant Human extracellular domain LOX-1 protein from bacteria
Specificity:	This antibody recognizes the type II membrane glycoprotein LOX-1 (lectin-like oxidized LDL receptor-1). SP2139P will detect LOX-1 on transfected cells and in recombinant protein reconstitution assays. LOX-1 levels are low in normal resting human tissues so may fall below detectable levels.
Formulation:	PBS State: Purified State: Liquid purified IgG fraction Stabilizer: 1% BSA Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Purification:	Affinity Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	oxidized low density lipoprotein receptor 1



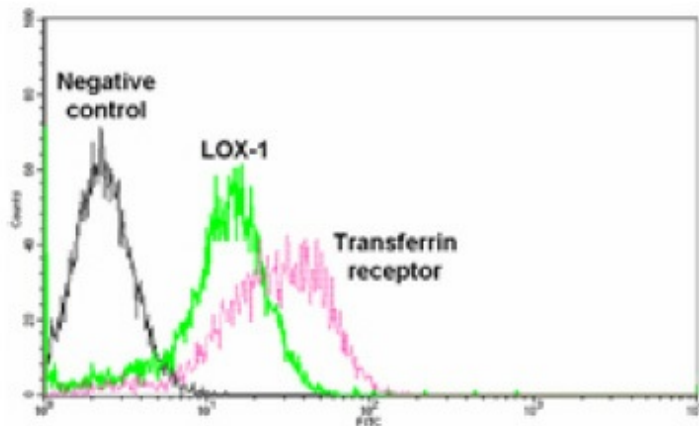
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Database Link: [Entrez Gene 4973 Human P78380](#)

Background: LOX-1 is a 40-50kDa class E scavenger receptor, expressed by endothelial cells, macrophages, activated platelets and smooth muscle cells. LOX-1 binds to a wide range of ligands, including oxidized low-density lipoprotein (oxLDL), hypochlorite modified high-density lipoprotein (HDL), aged/apoptotic cells, activated platelets and bacteria, reflecting its versatile physiological functions. Expression of the LOX-1 gene is upregulated by oxLDL and the binding of LOX-1 to oxLDL results in the activation of NF-kappaB. Furthermore, LOX-1 antibodies have been shown to suppress the oxidized HDL (oxHDL) activation of NF-KappaB in endothelial cells, suggesting that this activation may be due to the binding of oxHDL to LOX-1. Angiotensin II and the inflammatory cytokine Tumour Necrosis Factor alpha (TNFalpha) also invoke an increase in LOX-1 gene expression and studies have focused on its role in endothelial dysfunction (1,4) and inflammatory diseases such as atherosclerosis (1) and rheumatoid arthritis, as well as its affect on CD40/CD40L signaling in both atherosclerosis and human coronary artery endothelial cells (HCAECs).

Synonyms: LOX-1, Ox-LDL receptor 1, Ox-LDL receptor 1 soluble form, sLOX1, sLOX-1, CLEC8A

Product images:



Staining Human Umbilical Vein Endothelial Cells with Sheep anti-LOX-1 Antibody