

## LOX-1 Polyclonal Antibody

**CATALOG NO:** 3659R-30T 30 µg (Trial size)  
3659R-100 100 µg

**HOST:** Rabbit

**IMMUNOGEN:** Synthetic peptide near the N-terminus of human Lox-1 (ID# BV-604)

**SPECIES REACTIVITY:** Human, Mouse, Rat

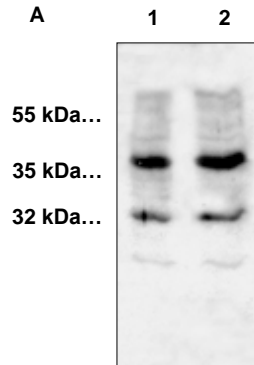
**FORMULATION:** 0.5 mg/ml affinity purified rabbit anti-LOX-1 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 0.03% proclin.

**STORAGE CONDITIONS:** Store at -20°C. For long-term storage, aliquot and freeze at -70°C. Avoid repeated freeze/thaw cycles.

**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.

**APPLICATION AND USAGE:** The antibody can be used for Western blotting (0.5-4 µg/ml) and Immunohistochemistry (5µg/ml) for detecting the pro- (~50 kDa) and the mature (~30 kDa) forms of Lox-1 in samples from human, mouse and rat origins. Other applications have not been determined. Blocking peptide (Cat.# 3659RBP-50) is available separately.

**FOR RESEARCH USE ONLY! Not to be used on humans.**

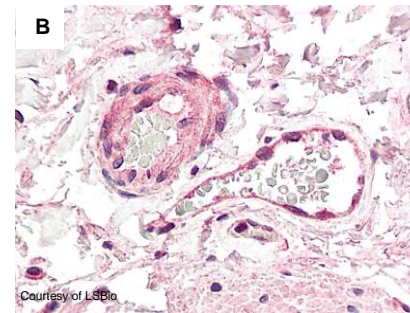


**Fig. A. Western blot with Lox-1 Polyclonal**

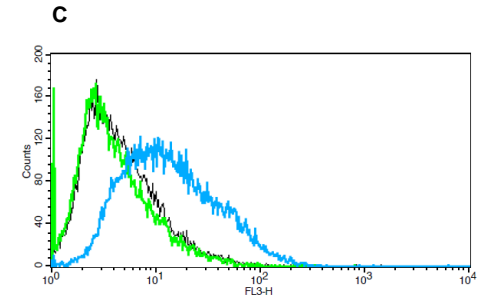
- 1) 50 µg Jurkat cell lysate
- 2) 100 µg Jurkat cell lysate

Blocking/Dilution buffer: 5% NFD (1 hr at RT) / TBST  
Lox-1 Polyclonal Antibody used at 1:1000 dilution - O/N at 4°C.  
Goat Anti-Rabbit IgG peroxidase conjugated used at 1:10,000 dilution – 1 hr at RT

Predicted band size: Proform: ~ 50 kDa. Mature form: ~ 30 kDa



**Fig. B. IHC staining of human small intestine vessels with Lox-1 Polyclonal antibody:** Immunohistochemistry of formalin fixed, paraffin-embedded tissue after heat-induced antigen retrieval. 5 µg/ml of antibody used for staining. After incubation with the primary antibody, slides were incubated with biotinylated secondary antibody, followed by alkaline phosphatase-streptavidin and chromogen.



**Fig. C. Flow cytometric analysis of Jurkat cells using LOX-1 Antibody (blue) with negative controls (black and green).**

**RELATED PRODUCTS:**

- LOX-1 Antibody (Cat # 3659-100)
- LOX-1 Blocking Peptide (Cat # 3659RBP-50)
- Sclerotiorin (Cat # 2334-250, -1000)
- Human CellExp™ FOLR1, human recombinant (Cat # 7456-10, -50)
- Human CellExp™ FOLR1, mouse recombinant (Cat # 7457-10, -50)