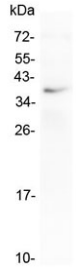
LOX-1 Antibody (Middle Region) (R32862)

Catalog No.	Formulation	Size
R32862	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA, 0.025% sodium azide
UniProt	P78380
Applications	Western Blot: 0.5-1ug/ml
Limitations	This LOX-1 antibody is available for research use only.



Western blot testing of human placental tissue with LOX-1 antibody at 0.5ug/ml.
Predicted molecular weight: pro-form 35-50 kDa, mature form ~31 kDa.

Description

OLR1 (oxidized low density lipoprotein (lectin-like) receptor 1) also called CLEC8A, LOX-1, SCARE1, is a receptor protein which belongs to the C-type lectin superfamily. The OLR1 gene encodes a cell-surface endocytosis receptor for oxidized low density lipoprotein (OxLDL). This gene is mapped on 12p13.2. Incubation of the cells with LDL had no effect on LOX1 expression, but incubation with OxLDL resulted in a dose-dependent increase in LOX1 mRNA and protein expression; however, very high concentrations of OxLDL caused a decrease in OxLDL expression, perhaps indicating toxic effects on endothelial cells. LOX1 was also expressed in macrophages, but not in vascular smooth muscle cells. The findings suggested a role for LOX1 in the pathophysiology of atherosclerotic cardiovascular disease. LOX1 expression was

detected in all choroidal neovascular membranes, regardless of structure, whereas there was no evidence of LOX1 within the posterior segments of normal eyes. LOX1 plays an active role in the pathogenesis of choroidal neovascularization, especially in ARMD.

Application Notes

Optimal dilution of the LOX-1 antibody should be determined by the researcher.

Immunogen

Amino acids 162-197 (SFNWEKSQEKCLSLDAKLLKINSTADLDFIQQAISY) were used as the immunogen for the LOX-1 antibody.

Storage

After reconstitution, the LOX-1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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