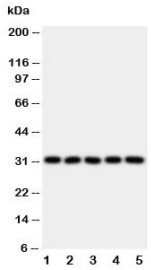
LOX-1 Antibody / OLR1 (R30930)

Catalog No.	Formulation	Size
R30930	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 and 0.025% sodium azide/thimerosal
UniProt	P78380
Applications	Western blot: 0.5-1ug/ml
Limitations	This LOX-1 antibody is available for research use only.



Western blot testing of LOX-1 antibody and Lane 1: HeLa; 2: SMMC-7721; 3: U87; 4: U937; 5: K562 lysate. 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 and LOX-1 (Lectin type oxidized LDL receptor 1), is a receptor protein which belongs to theC-type lectin superfamily. Thegene encodes a cell-surface endocytosis receptor for oxidized low density lipoprotein(OxLDL). Incubation of the cells with LDL had no effect on LOX-1 expression, but incubation with OxLDL resulted in a dose-dependent increase in mRNA and protein expression; however, very high concentrations of OxLDL caused a decrease in protein expression, perhaps indicating toxic effects on endothelial cells. LOX1 is expressed in macrophages, but not in vascular smooth muscle cells. The findings suggested a role for the protein in the pathophysiology of atherosclerotic cardiovascular disease. Expression was detected in all

choroidal neovascular membranes, regardless of structure, whereas there was no evidence of LOX-1 within the posterior segments of normal eyes. It plays an active role in the pathogenesis of choroidal neovascularization, especially in ARMD.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the LOX-1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the N-terminus of human LOX-1/OLR1 (MTFDDLKIQTVKDQPD) was used as the immunogen for this 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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