Rabbit anti-Human LOX-1 Polyclonal Antibody | anti-OLR1 antibody

Anti-LOX-1 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255016	**Rabbit**	**Human**	**Immunofluorescence, Immunocytochemistry, Immunohistochemistry, ELISA**

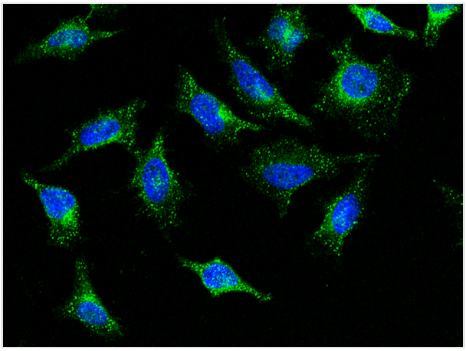
PRODUCT SYNONYMS

LOX-1; Polyclonal Antibody; Anti-LOX-1 Antibody; Rabbit Polyclonal; OLR1/LOX1 Antibody; Rabbit PAb; Antigen Affinity Purified; oxidized low density lipoprotein (lectin-like) receptor 1; Anti-CLEC8A Antibody; Anti-LOX1 Antibody; Anti-LOXIN Antibody; Anti-OLR1 Antibody; Anti-SCARE1 Antibody; Anti-SLOX1 Antibody; anti-OLR1 antibody

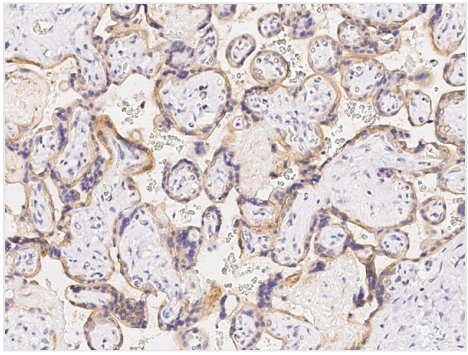
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human OLR1/LOX1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-OLR1 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry), ELISA
Immunogen	Recombinant Human OLR1/LOX1 Protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Human OLR1/LOX1 (rh OLR1/LOX1). OLR1/LOX1 specific IgG was purified by Human OLR1/LOX1 affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IF (Immunofluorescence)
Immunofluorescence staining of LOX1 in HeLa cells. Cells were fixed with 4% PFA, permeabilzed with 0.3% Triton X-100 in PBS,blocked with 10% serum, and incubated with rabbit anti-human LOX1 polyclonal antibody (1:1000) at 4 degree C overnight. Then cells were stained with the Alexa Fluor488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to cytoplasm.



IHC (Immunohistochemistry)
Immunochemical staining of human LOX1 in human placenta with rabbit polyclonal antibody (1:5000, formalin-fixed paraffin embedded sections).

ADDITIONAL INFORMATION

Related Product Information for anti-OLR1 antibody	Oxidized low-density lipoprotein receptor 1 (Ox-LDL receptor 1 or OLR1), also known as lectin-type oxidized LDL receptor 1 (LOX1), is a receptor protein that belongs to the C-type lectin superfamily. LOX1 is a multi-ligand receptor originally identified as the endothelial oxidized LDL receptor. OLR1/LOX1 was isolated from an aortic endothelial cell, and recently it has been discovered in macrophages and vascular smooth muscle cells in artery vessels. The expression of LOX1 is induced by inflammatory stimuli and oxidative stimuli. This protein binds, internalizes, and degrades oxidized low-density lipoprotein. LOX1 may play an important role in the progression of vulnerable carotid plaque and might regulate vulnerable plaque formation in cooperation with MMPs and TIMP-2. In clinical, LOX1 is thought to be involved in the development of atherosclerotic lesions.
References	Hinagata J, et al. (2006) Oxidized LDL receptor LOX-1 is involved in neointimal hyperplasia after balloon arterial injury in a rat model. Cardiovasc Res. 69 (1): 263-71.Melan MA, et al. (1994) The LOX1 Gene of Arabidopsis Is Temporally and Spatially Regulated in Germinating Seedlings. Plant Physiol. 105 (1): 385-93.Saito A, et al. (2010) Relationship between lectin-like oxidized low-density lipoprotein receptor 1 expression and preoperative echogenic findings of vulnerable carotid plaque. Acta Neurochir (Wien). 152 (4): 589-95.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505501
NCBI GeneID	4973
NCBI Accession #	NP_002534.1
NCBI GenBank Nucleotide #	NM_002543.3
UniProt Accession #	P78380; Q2PP00; Q7Z484; A8K7V9; B4DI48; G3V1I4
Molecular Weight	30,959 Da
NCBI Official Full Name	oxidized low-density lipoprotein receptor 1 isoform 1
NCBI Official Synonym Full Names	oxidized low density lipoprotein (lectin-like) receptor 1
NCBI Official Symbol	OLR1
NCBI Official Synonym Symbols	LOX1; LOXIN; SLOX1; CLEC8A; SCARE1
NCBI Protein Information	oxidized low-density lipoprotein receptor 1; hLOX-1; ox LDL receptor 1; lectin-type oxidized LDL receptor 1; scavenger receptor class E, member 1; C-type lectin domain family 8 member A; oxidized low-density lipoprotein receptor 1, soluble form
UniProt Protein Name	Oxidized low-density lipoprotein receptor 1

UniProt Gene Name	**OLR1**
UniProt Synonym Gene Names	CLEC8A; LOX1; Ox-LDL receptor 1; LOX-1; Lectin-like oxLDL receptor 1; hLOX-1
UniProt Entry Name	OLR1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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