

Datasheet for ABIN676988

anti-OLR1 antibody (AA 201-273)**5** Images**6** Publications[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	OLR1
Binding Specificity:	AA 201-273
Reactivity:	Human, Mouse, Rat, Rabbit
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This OLR1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunocytochemistry (ICC), Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from Rabbit LOX-1
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rabbit, Rat
Predicted Reactivity:	Cow
Purification:	Purified by Protein A.

Target Details

Target:	OLR1
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Target Details

Alternative Name:	LOX 1 (OLR1 Products)
Background:	<p>Synonyms: LOX1, LOX-1, Oxidized low-density lipoprotein receptor 1, Ox-LDL receptor 1, Lectin-like oxidized LDL receptor 1, Lectin-like oxLDL receptor 1, Lectin-type oxidized LDL receptor 1, OLR1</p> <p>Background: Receptor that mediates the recognition, internalization and degradation of oxidatively modified low density lipoprotein (oxLDL) by vascular endothelial cells. OxLDL is a marker of atherosclerosis that induces vascular endothelial cell activation and dysfunction, resulting in pro-inflammatory responses, pro-oxidative conditions and apoptosis. Its association with oxLDL induces the activation of NF-kappa-B through an increased production of intracellular reactive oxygen and a variety of pro-atherogenic cellular responses including a reduction of nitric oxide (NO) release, monocyte adhesion and apoptosis. In addition to binding oxLDL, it acts as a receptor for the HSP70 protein involved in antigen cross-presentation to naive T-cells in dendritic cells, thereby participating in cell-mediated antigen cross-presentation. Also involved in inflammatory process, by acting as a leukocyte-adhesion molecule at the vascular interface in endotoxin-induced inflammation. Also acts as a receptor for advanced glycation end (AGE) products, activated platelets, monocytes, apoptotic cells and both Gram-negative and Gram-positive bacteria (By similarity).</p>
Gene ID:	100009322
UniProt:	Q9XTA8

Application Details

Application Notes:	WB 1:300-5000 ELISA 1:500-1000 FCM 1:20-100 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200 ICC 1:100-500
Restrictions:	For Research Use only

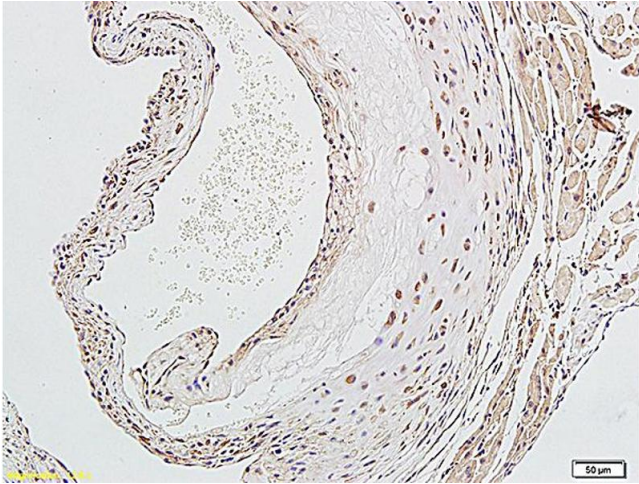
Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

- Product cited in:
- Shibata, Shibata, Maemura, Kondo, Harada-Shiba: "Pathological and molecular analyses of atherosclerotic lesions in ApoE-knockout mice." in: **Medical molecular morphology**, (2017) ([PubMed](#)).
- Gao, Zhao, Li, Lin, Jiang, Wang, Hu, Xu, Peng, He, Zhu: "LOX-1 and TLR4 affect each other and regulate the generation of ROS in A. fumigatus keratitis." in: **International immunopharmacology**, Vol. 40, pp. 392-399, (2016) ([PubMed](#)).
- Deng, Hu, Xin, Gang: "Resveratrol alleviates vascular inflammatory injury by inhibiting inflammasome activation in rats with hypercholesterolemia and vitamin D2 treatment." in: **Inflammation research : official journal of the European Histamine Research Society ... [et al.]**, Vol. 64, Issue 5, pp. 321-32, (2015) ([PubMed](#)).
- Li, Zhao, Che, Lin, Li, Hu, Jiang, Liu: "The Role of LOX-1 in Innate Immunity to Aspergillus fumigatus in Corneal Epithelial Cells." in: **Investigative ophthalmology & visual science**, Vol. 56, Issue 6, pp. 3593-603, (2015) ([PubMed](#)).
- Wu, Tang, Jiang, Li, Jiang, Liu: "PCSK9 siRNA inhibits HUVEC apoptosis induced by ox-LDL via Bcl/Bax-caspase9-caspase3 pathway." in: **Molecular and cellular biochemistry**, Vol. 359, Issue 1-2, pp. 347-58, (2011) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)



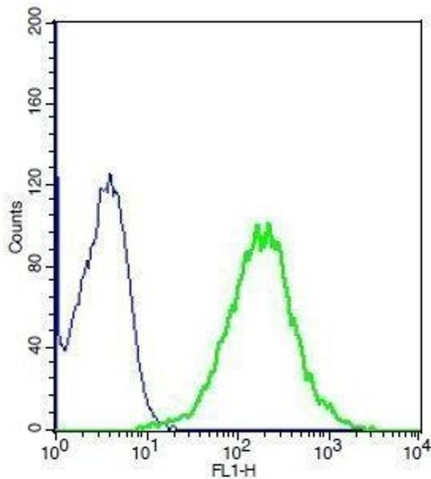
Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded rat aorta labeled with Anti-LOX-1 Polyclonal Antibody, Unconjugated (ABIN676988) followed by conjugation to the secondary antibody and DAB staining



Western Blotting

Image 2. This image was generously provided by Zu Yue Deng from Zhejiang University of Technology. Human heart tissue probed with Rabbit Anti-LOX 1 Polyclonal Antibody, Unconjugated . Protein bands were developed using an HRP system.



Flow Cytometry

Image 3. Human A549 cells probed with Rabbit Anti-LOX1 Polyclonal Antibody, Unconjugated .

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN676988.