

Rabbit anti-Mouse, Rat LOX 1/Olr1 Polyclonal Antibody | anti-Olr1 antibody

Anti-LOX 1/Olr1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125408	Rabbit	Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

LOX 1/Olr1; Polyclonal Antibody; Anti-LOX 1/Olr1 Antibody; Oxidized low-density lipoprotein receptor 1; Ox-LDL receptor 1; Lectin-like oxidized LDL receptor 1; LOX-1; Lectin-like oxLDL receptor 1; Lectin-type oxidized LDL receptor 1; Olr1; Lox1; Oldlr1; anti-Olr1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	No cross reactivity with other proteins.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	364
Applicable Applications for anti-Olr1 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived rat LOX 1/Olr1 recombinant protein (Position: Q55-Q364).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen store at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES

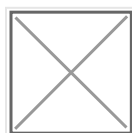


WB (Western Blot)

Figure 1. Western blot analysis of Olr1 using anti-Olr1 antibody.



IHC (Immunohistochemistry)



FCM/FACS (Flow Cytometry)

ADDITIONAL INFORMATION

Related Product Information for anti-Olr1 antibody	Description: Rabbit IgG polyclonal antibody for LOX 1/Olr1 detection. Tested with WB, IHC-P, FCM, Direct ELISA in Mouse; Rat. Background: 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.
References	1. Lambert, J.-C., Luedeking-Zimmer, E., Merrot, S., Hayes, A., Thaker, U., Desai, P., Houzet, A., Hermant, X., Cotel, D., Pritchard, A., Iwatsubo, T., Pasquier, F., Frigard, B., Conneally, P. M., Chartier-Harlin, M.-C., DeKosky, S. T., Lendon, C., Mann, D., Kamboh, M. I., Amouyel, P. Association of 3-prime-UTR polymorphisms of the oxidised LDL receptor 1 (OLR1) gene with Alzheimer's disease. J. Med. Genet. 40: 424-430, 2003. 2. Luedeking-Zimmer, E., DeKosky, S. T., Chen, Q., Barmada, M. M., Kamboh, M. I. Investigation of oxidized LDL-receptor 1 (OLR1) as the candidate gene for Alzheimer's disease on chromosome 12. Hum. Genet. 111: 443-451, 2002. 3. Mango, R., Clementi, F., Borgiani, P., Forleo, G. B., Federici, M., Contino, G., Giardina, E., Garza, L., Fahdi, I. E., Lauro, R., Mehta, J. L., Novelli, G., Romeo, F. Association of single nucleotide polymorphisms in the oxidised LDL receptor 1 (OLR1) gene in patients with acute myocardial infarction. (Letter) J. Med. Genet. 40: 933-936, 2003.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4008187
NCBI GeneID	140914
UniProt Accession #	O70156
NCBI Official Full Name	lectin-like oxidized low-density lipoprotein receptor
NCBI Official Synonym Full Names	oxidized low density lipoprotein receptor 1
NCBI Official Symbol	Olr1
NCBI Official Synonym Symbols	LOX-1; Oldr1; Oldlr1
NCBI Protein Information	oxidized low-density lipoprotein receptor 1
UniProt Protein Name	Oxidized low-density lipoprotein receptor 1
UniProt Gene Name	Olr1
UniProt Synonym Gene Names	Lox1; Oldlr1; Ox-LDL receptor 1; LOX-1
UniProt Entry Name	OLR1_RAT

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.