Datasheet: AHP1601

Description:	RABBIT ANTI HUMAN LOX-1 (EXTRACELLULAR DOMAIN)
Specificity:	LOX-1 (EXTRACELLULAR DOMAIN)
Other names:	OLR1
Format:	Serum
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 ml

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting			▪	
Immunofluorescence (1)	▪			1/100 - 1/200

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

(1) **Fixation with 4% paraformaldehyde or methanol is recommended.**

Target Species

Human

Product Form

Serum - liquid

Antiserum Preparation

Antisera to human LOX-1 (extracellular domain) were raised by repeated immunisations of rabbits with highly purified antigen.

Preservative Stabilisers

0.09% Sodium Azide (NaN_3)

Immunogen

Peptide corresponding to the C-terminal (extracellular) region of human LOX-1.

External Database Links

UniProt:

P78380 Related reagents

Entrez Gene:

4973 OLR1 Related reagents

Synonyms	CLEC8A, LOX1
Specificity	**Rabbit anti Human LOX-1 antibody** recognizes the extracellular (C-terminal) domain of human LOX-1, a receptor for oxidised low-density lipoproteins (LDL). This receptor mediates the recognition, internalisation and degradation of oxidised LDL. It is a Type II membrane protein with a typical C-type lectin structure at the extracellular C-terminus which recognises the ligand. LOX-1 activation by oxidised LDL causes endothelial changes such as decreased nitric oxide release and an increased expression of adhesion molecules. LOX-1 also binds activated platelets and apoptotic cells. The expression of LOX-1 is induced by proatherogenic conditions such as hyperlipidemia, hypertension and diabetes and as such appears to contribute to the pathogenesis of vascular disorders, particularly atherosclerosis.
References	1. Chen, M. *et al.* (2002) LOX-1, the receptor for oxidized low-density lipoprotein identified from endothelial cells: implications in endothelial dysfunction and atherosclerosis. Pharmacol. Ther. 95: 89-100. 2. Li, D. *et al.* (2003) LOX-1, an oxidized LDL endothelial receptor, induces CD40/CD40L signaling in human coronary artery endothelial cells. Arterioscler Thromb Vasc Biol. 23 (5): 816-21. 3. Morawietz, H. *et al.* (1999) Angiotensin II induces LOX-1, the human endothelial receptor for oxidized low-density lipoprotein. Circulation. 100 (9): 899-902. 4. Sawamura, T. *et al.* (1997) An endothelial receptor for oxidized low-density lipoprotein. Nature. 386 (6620): 73-7. 5. Yoshida, H. *et al.* (1998) Identification of the lectin-like receptor for oxidized low-density lipoprotein in human macrophages and its potential role as a scavenger receptor. Biochem J. 334 (Pt 1): 9-13.
Storage	Store at +4ºC or at -20ºC if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation available at: Material Safety Datasheet Documentation #10081 available at: https://www.bio-rad-antibodies.com/uploads/MSDS/10081.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...)	FITC
Sheep Anti Rabbit IgG (STAR35...)	RPE
Goat Anti Rabbit IgG (H/L) (STAR124...)	HRP
Goat Anti Rabbit IgG (Fc) (STAR121...)	Biotin, FITC, HRP
Sheep Anti Rabbit IgG (2AB02...)	Biotin
Sheep Anti Rabbit IgG (STAR36...)	DyLight®488, DyLight®549, DyLight®649, DyLight®680, DyLight®800

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