



Anti-OLR1 monoclonal antibody, clone LOX20-7 (CABT-47901MH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview Mouse anti Human LOX-1 (Soluble) antibody, clone LOX20-7 recognizes the lectin-like oxidised low-density lipoprotein (LDL) receptor (LOX-1), a 31kDa protein of the C-type lectin superfamily. 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 recognizes 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. It can be cleaved by an unknown protease at the extracellular juxtamembrane region to release the soluble form (aa58-273) of LOX-1, recognized by Mouse anti Human LOX-1 (Soluble) antibody, clone LOX20-7.

Specificity	LOX-1
Isotype	IgG2a
Source/Host	Mouse
Species Reactivity	Human
Clone	LOX20-7
Conjugate	Unconjugated
Applications	ELISA; WB
Format	Purified IgG - liquid
Size	200 µg

Preservative	0.09% Sodium Azide
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.

GENE INFORMATION

Gene Name	OLR1 oxidized low density lipoprotein (lectin-like) receptor 1 [Homo sapiens (human)]
Official Symbol	OLR1
Synonyms	OLR1; oxidized low density lipoprotein (lectin-like) receptor 1; LOX1; LOXIN; SLOX1; CLEC8A; SCARE1; 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
Entrez Gene ID	4973
Protein Refseq	NP_001166103
UniProt ID	P78380
Chromosome Location	12p13.2-p12.3
Pathway	Cell surface interactions at the vascular wall; Hemostasis; PPAR signaling pathway; Phagosome;
Function	carbohydrate binding; low-density lipoprotein receptor activity; protein binding;