

Datasheet: MCA6250GA

BATCH NUMBER 100005322

Description:	MOUSE ANTI HUMAN LOX-1
Specificity:	LOX-1
Other names:	Ox-LDL receptor 1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	DE15-4H4
Isotype:	IgG2a
Quantity:	0.1 mg

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
ELISA	▪			1.0 ug/ml

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.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml

Immunogen	HEK293 derived recombinant human full length LOX-1 (Ser61-Gln273)
External Database Links	<p>UniProt: P78380 Related reagents</p> <p>Entrez Gene: 4973 OLR1 Related reagents</p>
Synonyms	CLEC8A, LOX1
Fusion Partners	Cell fusion between immunized BALB/c mouse spleen cells and mouse myeloma SP2/0
Specificity	<p>Mouse anti Human LOX-1 antibody, clone DE15-4H4, recognizes lectin-like oxidized LDL receptor 1 (LOX-1) also known as oxidized low density lipoprotein receptor 1 and C-type lectin domain family 8 member A. LOX-1 is a 5 kDa transmembrane glycoprotein and is a member of the class E of the scavenger receptors. It is expressed in a variety of cells including macrophages, vascular smooth muscle cells, cardiomyocytes, platelets and fibroblasts (Kattoor et al. 2019). Proteolytic cleavage of LOX-1 results in the soluble form sLOX-1. The ligand Ox-LDL exerts its biological effects through the LOX-1 receptor, with its binding resulting in induction of the MAPK or NF-κB signaling pathways. Downstream of this, these pathways can trigger the induction of the productions of adhesion molecules and pro-inflammatory cytokines (https://pubmed.ncbi.nlm.nih.gov/30819724/).</p> <p>LOX-1 is expressed at low levels under normal physiological conditions, but is upregulated in various pathological conditions including atherosclerosis, diabetes mellitus, hypertension and dyslipidemia (Kattoor et al. 2019).</p> <p>The purified Mouse anti Human LOX-1 antibody, clone DE15-4H4 (MCA6250GA) can be used as a capture antibody in a sandwich ELISA with the biotinylated Mouse anti Human LOX-1 antibody, clone DE17-4B9 (MCA6251B) as the detection antibody.</p>
Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>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.</p>
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA6250GA 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP

Recommended Useful Reagents

[MOUSE ANTI HUMAN LOX-1:Biotin \(MCA6251B\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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