Datasheet: MCA6251B

BATCH NUMBER 100005271

Description:	MOUSE ANTI HUMAN LOX-1:Biotin
Specificity:	LOX-1
Other names:	Ox-LDL receptor 1
Format:	Biotin
Product Type:	Monoclonal Antibody
Clone:	DE17-4B9
Isotype:	IgG2b
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 conjugated to Biotin - 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)
1% Bovine Serum Albumin

Approx. Protein Concentrations

IgG concentration 0.1 mg/ml

Immunogen

HEK293 derived recombinant human full length LOX-1 (Ser61-Gln273)

External Database Links	**UniProt:** P78380 Related reagents **Entrez Gene:** 4973 OLR1 Related reagents
Synonyms	CLEC8A, LOX1
Fusion Partners	Cell fusion between immunized BALB/c mouse spleen cells and mouse myeloma SP2/0
Specificity	**Mouse anti Human LOX-1 antibody, clone DE17-4B9,** 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/). 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). The biotinylated Mouse anti Human LOX-1 antibody, clone DE17-4B9 (MCA6251B) can be used as a detection antibody in a sandwich ELISA with the purified Mouse anti Human LOX-1 antibody, clone DE15-4H4 (MCA6250GA) as the capture antibody.
Storage	Store at +4°C or at -20°C 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.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA6251B 10041
Regulatory	For research purposes only

Related Products

Recommended Useful Reagents

MOUSE ANTI HUMAN LOX-1 (MCA6250GA)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	**Worldwide**	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	**Europe**	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com

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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