

Datasheet: MCA6251B

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 as the capture antibody.

Storage

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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

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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
'M384557:210513'

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