

## Datasheet: MCA6251B

<b>Description:</b>	MOUSE ANTI HUMAN LOX-1:Biotin
<b>Specificity:</b>	LOX-1
<b>Other names:</b>	Ox-LDL receptor 1
<b>Format:</b>	Biotin
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	DE17-4B9
<b>Isotype:</b>	IgG2b
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG conjugated to Biotin - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> ) 1% Bovine Serum Albumin
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 mg/ml
<b>Immunogen</b>	HEK293 derived recombinant human full length LOX-1 (Ser61-Gln273)

**External Database  
Links**

**UniProt:**

[P78380](#)    [Related reagents](#)

**Entrez Gene:**

[4973](#)    OLR1    [Related reagents](#)

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**Synonyms**

CLEC8A, LOX1

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**Fusion Partners**

Cell fusion between immunized BALB/c mouse spleen cells and mouse myeloma SP2/0

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**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.

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**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.

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**Guarantee**

12 months from date of despatch

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**Health And Safety  
Information**

Material Safety Datasheet documentation #10041 available at:  
<https://www.bio-rad-antibodies.com/SDS/MCA6251B>  
10041

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Useful Reagents

[MOUSE ANTI HUMAN LOX-1 \(MCA6250GA\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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](https://bio-rad-antibodies.com/datasheets)

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