



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Mouse Anti Human LOX-1

With HRP-conjugated Secondary Antibody

Catalog No.

DS-MB-03380

Target Species

Human

Isotype

IgG1

Preparation

Immunogen: Recombinant soluble LOX-1 expressed in *E.coli*.

Purification: Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

Fusion Partners: Spleen cells from immunized Balb/c were fused with cells of the Sp2/0 myeloma cell line.

Formulation

Product Type: Monoclonal Antibody

Product Form: Purified IgG – liquid

Buffer Solution: Phosphate buffered saline pH7.4

Preservative Stabilizers: 0.09% Sodium Azide (NaN₃)

Approx. Protein Concentration: IgG concentration 1.0mg/ml

Specificity

DS-MB-03380 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, internalization and degradation of oxidized 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 oxidized 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 DS-MB-03380.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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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.
Shelf Life: 18 months from date of shipment

Applications

Table Summary of antibody applications and working conditions

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA	•			
Western Blotting	•			
Functional Assays			•	
Flow Cytometry			•	

Note: Other applications are not tested yet. Optimal dilutions should be determined by the user.

Secondary Antibody Applications

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Immunoassay (ELISA, Western blot)	•			1:5000-1:10000

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