

Mouse OxLDL Antibody Pair Set

Catalog No.	E-KAB-0682	Applications	ELISA
Synonyms	CLEC8A;CLEC8ASLOX1;C-type lectin domain family 8 member A;hLOX-1;Lectin-like oxidized LDL receptor 1;Lectin-like oxLDL receptor 1;Lectin-type oxidized LDL receptor 1;LOX1;LOX-1;LOX1ox LDL receptor 1;LOXIN;OLR1		

Kit components & Storage

Title	Specifications	Storage
Mouse OxLDL Capture Antibody	1 vial, 100 µg	Store at -20℃. Avoid freeze / thaw cycles.
Mouse OxLDL Detection Antibody (Biotin)	1 vial, 50 µL	Store at -20℃. Avoid freeze / thaw cycles.

Note: Centrifuge before opening to ensure complete recovery of vial contents.

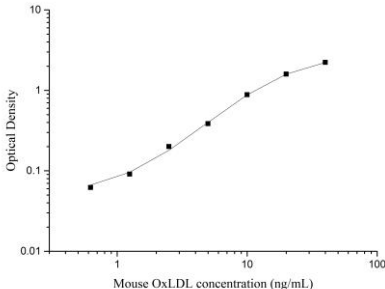
Product Information

Items		Characteristic (E-KAB-0682)	
		Mouse OxLDL Capture Antibody	Mouse OxLDL Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Mouse OxLDL protein	Recombinant Mouse OxLDL protein
	Swissprot	/	/
Product details	Reactivity	Mouse	Mouse
	Host	Goat	Goat
	Conjugation	Unconjugated	Biotin
	Concentration	0.5mg/mL	/
	Buffer	PBS with 0.04% Proclin 300, 50% glycerol, pH 7.4	PBS with 0.04% Proclin 300, 1% protective protein, 50% glycerol, pH 7.4
	Purify	Affinity purification	Affinity purification
	Specificity	Detects Mouse OxLDL in ELISAs.	

For Research Use Only

Applications

Mouse OxLDL Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																		
ELISA Capture	0.5-4ug/mL	Mouse OxLDL Capture Antibody	 <table><caption>Approximate data points from the standard curve</caption><thead><tr><th>Mouse OxLDL concentration (ng/mL)</th><th>Optical Density</th></tr></thead><tbody><tr><td>0.5</td><td>0.05</td></tr><tr><td>1</td><td>0.08</td></tr><tr><td>2</td><td>0.15</td></tr><tr><td>5</td><td>0.3</td></tr><tr><td>10</td><td>0.8</td></tr><tr><td>20</td><td>1.5</td></tr><tr><td>50</td><td>2.2</td></tr><tr><td>100</td><td>2.5</td></tr></tbody></table>	Mouse OxLDL concentration (ng/mL)	Optical Density	0.5	0.05	1	0.08	2	0.15	5	0.3	10	0.8	20	1.5	50	2.2	100	2.5
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ELISA Detection	1:1000-1:10000	Mouse OxLDL Detection Antibody (Biotin)																			

Note: This standard curve is only for demonstration purposes. A standard curve should be generated for each assay!

Background

Receptor that mediates the recognition, internalization and degradation of oxidatively modified low density lipoprotein (oxLDL) by vascular endothelial cells. OxLDL is a marker of atherosclerosis that induces vascular endothelial cell activation and dysfunction, resulting in pro-inflammatory responses, pro-oxidative conditions and apoptosis. Its association with oxLDL induces the activation of NF-kappa-B through an increased production of intracellular reactive oxygen and a variety of pro-atherogenic cellular responses including a reduction of nitric oxide (NO) release, monocyte adhesion and apoptosis. In addition to binding oxLDL, it acts as a receptor for the HSP70 protein involved in antigen cross-presentation to naive T-cells in dendritic cells, thereby participating in cell-mediated antigen cross-presentation. Also involved in inflammatory process, by acting as a leukocyte-adhesion molecule at the vascular interface in endotoxin-induced inflammation. Also acts as a receptor for advanced glycation end (AGE) products, activated platelets, monocytes, apoptotic cells and both Gram-negative and Gram-positive bacteria.