

Technical Information

oLAB ELISA

Enzyme Immunoassay for the quantitative determination of human IgG autoantibodies against oxidized low-density-lipoprotein in human serum

Cat. No.:	BI-20032
Tests:	96
Method:	ELISA
Range:	37 – 1,200 mU/ml
Sensitivity:	48 mU / ml
Incubation time:	1,5 h at 37°C / 30 min at RT / 15 min at RT
Sample volume:	50 µl
Sample type:	Serum
Sample preparation:	Centrifuge freshly collected blood as soon as possible Store centrifuged samples at -20°C, for longer storage at -70°C Hemolyzed or lipemic samples may cause erroneous results.
Reference values:	Median = 263 mU/ml (n = 50)
Species:	Human

Intended use:

Oxidized low density lipoprotein (oLDL) is believed to play a critical role in the development and progression of atherosclerosis. Accumulation of oLDL in macrophages and smooth muscle cells causes foam cell formation, an initial step in the disease. Autoantibodies against oxidatively modified LDL can be used as a parameter that consistently mirrors the occurrence of oxidation processes taking place in vivo. In fact, elevated levels of autoantibodies against oLDL have been detected in the blood stream of patients with coronary artery disease. Moreover, recent studies indicate a correlation between autoantibodies against oLDL and the progression of carotid atherosclerosis. Increased serum concentrations of oLAB have also been described in various diseases such as pre-eclampsia and systemic lupus erythematosus. Decreased oLAB titers were observed during septicemia and myocardial infarction. An overview on the clinical applications of oLAB has been published.

Intended applications:

- Cardiovascular Disease – atherosclerosis, coronary artery disease, myocardial infarction
- Stroke
- Acute septicaemia
- Preeclampsia

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