

# HUMAN $\text{Cu}_{2+}$ -OXIDIZED LOW DENSITY LIPOPROTEIN

## ( $\text{Cu}_{2+}$ -OX-LDL)

### ANTIBODY, POLYCLONAL

**Catalog no.:** YIAT1002.1

**Immunogen:** Human  $\text{Cu}_{2+}$ -oxidized LDL

**Host:** Rabbit

**Matrix:** Serum

**Specificity:** Human and murine  $\text{Cu}_{2+}$ -oxidized LDL.

The antiserum shows strong reactivity to fully oxidized modifications of LDL including  $\text{Cu}_{2+}$ -oxidized LDL, MDA-LDL, HOCL-LDL, but not to other oxidized proteins like MDA-HSA, MDA-HDL, HOCL-HSA, HOCL-HDL (below detection limit). The reaction to native LDL was weak, but clearly detectable (approx. 20%). Minimally oxidized LDL gave a strong binding signal (> 80%)

**Contents:** 20  $\mu\text{l}$  (lyophilized)

Resuspend in 20  $\mu\text{l}$

aqua bidest.

**Known applications:** ELISA and related methods

(1:500-1: 5.000)<sub>1</sub>;

immunohistochemistry

(paraffin sections, <1:500;

cryosections, 1:400)<sub>1, 2, 3, 4, 6</sub>

This antibody has not been tested for use

in all applications. This does not

necessarily exclude its use for non-tested procedures. The stated dilutions are recommendations only. We suggest that the applicant titrates the antibody in his/her system using appropriate negative/positive controls.

**Store at:** 2-8 °C (lyophilized); - 20 °C

(dissolved)

Repeated thawing and freezing must be avoided

**References:** 1. Winyard PG, Tatzber F, Esterbauer H, Kus ML, Blake DR, Morris CJ (1993). Presence of foam cells containing oxidised low density lipoprotein in the synovial membrane from patients with rheumatoid arthritis. *Ann Rheum Dis* **52**(9): 677-680.

2. Bobryshev YV, Lord RSA, Watanabe T, Ikezawa T (1998). The cell adhesion molecule E-cadherin is widely expressed in human atherosclerotic lesions. *Cardiovasc Res* **40**(1): 191-205.

3. Ekmekcioglu C, Mehrabi MR, Glogar HD, Jucewicz M, Volf I, Spieckermann PG (2000). Oxidized lowdensity lipoprotein is localized in the ventricles of hearts from patients with coronary heart disease. *Int J Clin Lab Res* **30**(3): 133-140.

4. Mehrabi MR, Sinzinger H, Ekmekcioglu C, Tamaddon F, Plesch K, Glogar HD, Maurer G, Stefenelli T, Lang IM (2000). Accumulation of oxidized LDL in human semilunar valves correlates with coronary atherosclerosis. *Cardiovasc Res* **45**(4): 874-882.

5. Bobryshev YV (2005). Intracellular localization of oxidized low-density lipoproteins in atherosclerotic plaque cells revealed by electron microscopy combined with laser capture microdissection. *J Histochem Cytochem* **53**(6): 793-797.

6. Sun L, Ishida T, Yasuda T, Kojima Y, Honjo T, Yamamoto Y, Yamamoto H, Ishibashi S, Hirata K, Hayashi Y (2009). RAGE mediates oxidized LDL-induced pro-inflammatory effects and atherosclerosis in nondiabetic LDL receptor-deficient mice. *Cardiovasc Res* **82**(2): 371-381.

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