



Product Information Sheet

Polyclonal Anti- Lipoprotein lipase, LPL (*Magnetic Bead Conjugate*)

Catalogue No. PA1304-M

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminal of human LPL, different to the related rat sequence by two amino acids.

Lot No. 09H01

Purity

Immunogen affinity purified.

Ig type rabbit IgG

Contents

Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg NaN₃.

Size 100µg/vial

Specificity

Bovine, human.

No cross reactivity with other proteins.

Storage

Store at 4°C for frequent use.

Description

This Antagene antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified antibody with formylbenzamide-modified magnetic beads. It is useful for immunoprecipitation

Recommended application

ImmunoPrecipitation (IP)

BACKGROUND

Lipoprotein lipase (LPL) is the central enzyme in plasma triglyceride hydrolysis and is secreted by macrophages in the subendothelial space. Evidence has been provided that LPL produced by macrophages in the vessel wall exerts proatherogenic effects. Lipoprotein lipase has been difficult to purify, and its protein sequence remained undetermined until it could be deduced from the nucleotide sequence of its cDNA. The gene encodes a protein of 475 amino acids that becomes a mature protein of 448 residues after cleavage of a signal peptide. Analysis of the sequence indicated that human lipoprotein lipase, hepatic lipase, and pancreatic lipase are members of a gene family. The atherogenic effects of LPL have been mainly attributed to its ability to favor lipid accumulation within macrophages present in the atherosclerotic lesion.

REFERENCE

1. Wion, K. L.; Kirchgessner, T. G.; Lusi, A. J.; Schotz, M. C.; Lawn, R. M. : Human lipoprotein lipase complementary DNA sequence. *Science* 235: 1638-1641, 1987.
2. Gotoda T., Senda M., Gamou T., Furuichi Y., Oka K.; Nucleotide sequence of human cDNA coding for a lipoprotein lipase (LPL) cloned from placental cDNA library."; *Nucleic Acids Res.* 17:2351-2352(1989).
3. Lo, J. Y.; Smith, L. C.; Chan, L. : Lipoprotein lipase: role of intramolecular disulfide bonds in enzyme catalysis. *Biochem. Biophys. Res. Commun.* 206: 266-271, 1995.
4. Lopez-Miranda, J.; Cruz, G.; Gomez, P.; Marin, C.; Paz, E.; Perez-Martinez, P.; Fuentes, F. J.; Ordovas, J. M.; Perez-Jimenez, F. : The influence of lipoprotein lipase gene variation on postprandial lipoprotein metabolism. *J. Clin. Endocr. Metab.* 89: 4721-4728, 2004.