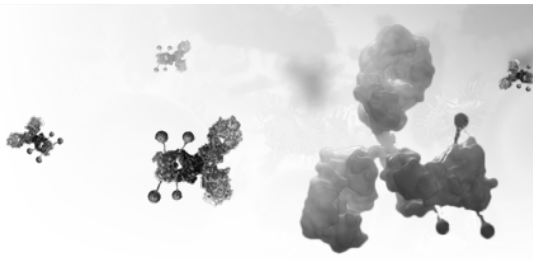

Anti-Lipoprotein lipase monoclonal antibody, clone 6E3 [HRP] (DCABY-576)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	A deficiency of LPL can result in hypertriglyceridemia, and many studies have focused on the critical role which LPL plays in the pathogenesis of atherosclerosis, and in particular the relationship between LPL and apolipoprotein E (ApoE), both of which are secreted in significant amounts by macrophages in developing arterial wall lesions.
Specificity	Mouse anti Lipoprotein Lipase antibody, clone 6E3 specifically recognizes an epitope within amino acids 380-410 of lipoprotein lipase (LPL), a member of the AB hydrolase superfamily, which plays a pivotal role in lipoprotein metabolism and transport, acting as the key enzyme in the hydrolysis of triglycerides and very low density lipoproteins (VLDLs), and the release of free fatty acids into peripheral tissues. Mouse anti Lipoprotein Lipase antibody, clone 6E3 is a unique antibody which differentiates between monomeric inactive and dimeric active LPL, and binds to LPL sequences involved in LPL, LPL receptor, and heparin interactions. Mouse anti Lipoprotein Lipase antibody, clone 6E3 has been shown to inhibit the activity of human LPL, and is widely used in human studies.
Target	Lipoprotein lipase
Immunogen	Purified bovine milk lipoprotein lipase
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Bovine, Chicken, Guinea pig, Human, Rat
Clone	6E3
Conjugate	HRP
Applications	ELISA, Immunoprecipitation, Western Blot

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Format	Purified IgG conjugated to Horseradish Peroxidase (HRP) - liquid
Size	100 µg
Buffer	Phosphate buffered saline
Preservative	None
Storage	Store at +4°C. DO NOT FREEZE.This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.

GENE INFORMATION

Gene Name	LPL lipoprotein lipase [Bos taurus (cattle)]
Official Symbol	LPL
Synonyms	LPL; lipoprotein lipase
Entrez Gene ID	280843
Protein Refseq	NP_001068588
UniProt ID	P11151
Chromosome Location	chromosome: 8
Pathway	Adipogenesis; Alzheimer's disease; Chylomicron-mediated lipid transport; Developmental Biology; Disease; Diseases associated with visual transduction; Fatty Acid Beta Oxidation; Glycerolipid metabolism; Lipid digestion, mobilization, and transport; Lipoprotein metabolism; Metabolism; Metabolism of lipids and lipoproteins; PPAR signaling pathway; Retinoid metabolism and transport; Signal Transduction; Statin Pathway; Transcriptional Regulation of White Adipocyte Differentiation; Triacylglyceride
Function	apolipoprotein binding;heparin binding;lipoprotein lipase activity;phospholipase activity;protein binding;receptor binding;triglyceride lipase activity
References	1. Peterson, J. et al. (1992) Human lipoprotein lipase: relationship of activity, heparin affinity, and conformation as studied with monoclonal antibodies. J. Lipid Res. 33: 1165-1170. 2. Chang, S-F. et al. (1998) Detailed characterization of the binding site of the lipoprotein lipase-specific monoclonal antibody 5D2.J. Lipid Res. 39: 2350-2359.

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

3. Hussain, M.M. et al. (2000) High affinity binding between lipoprotein lipase and lipoproteins involves multiple ionic and hydrophobic interactions, does not require enzyme activity, and is modulated by glycosaminoglycans.J. Biol. Chem. 275: 29324-29330.

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221