ARG83321
Human LPL / Lipoprotein Lipase ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG83321 Human LPL / Lipoprotein Lipase ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human LPL / Lipoprotein Lipase in Serum, Plasma and Cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	LPL / Lipoprotein Lipase
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	45 pg/ml
Detection Range	78 pg/ml - 5,000 pg/ml
Sample Type	Serum, Plasma and Cell culture supernatants
Precision	Intra-Assay CV: 6.1% Inter-Assay CV: 5.7%
Alternate Names	EC 3.1.1.34; LPL; Lipoprotein lipase; LIPD; HDLCQ11

Application Instructions

Assay Time	~ 5 hours

Properties

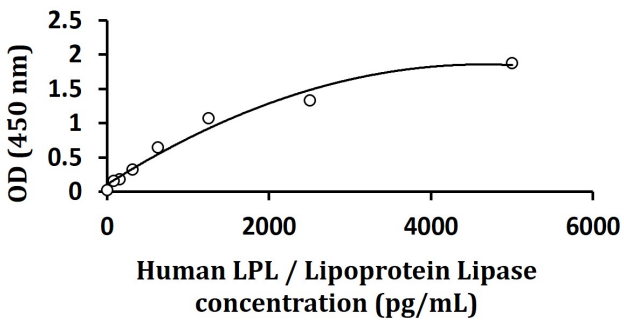
Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	LPL
Gene Full Name	lipoprotein lipase
Background	LPL encodes lipoprotein lipase, which is expressed in heart, muscle, and adipose tissue. LPL functions as a homodimer, and has the dual functions of triglyceride hydrolase and ligand/bridging factor for receptor-mediated lipoprotein uptake. Severe mutations that cause LPL deficiency result in type I hyperlipoproteinemia, while less extreme mutations in LPL are linked to many disorders of lipoprotein metabolism. [provided by RefSeq, Jul 2008]
Function	The primary function of this lipase is the hydrolysis of triglycerides of circulating chylomicrons and very

	low density lipoproteins (VLDL). Binding to heparin sulfate proteogylcans at the cell surface is vital to the function. The apolipoprotein, APOC2, acts as a coactivator of LPL activity in the presence of lipids on the luminal surface of vascular endothelium (By similarity). [UniProt]
PTM	Tyrosine nitration after lipopolysaccharide (LPS) challenge down-regulates the lipase activity. [UniProt]
Cellular Localization	Cell membrane; Lipid-anchor, GPI-anchor. Secreted. Note=Locates to the plasma membrane of microvilli of hepatocytes with triacyl-glycerol-rich lipoproteins (TRL). Some of the bound LPL is then internalized and located inside non-coated endocytic vesicles (By similarity). [UniProt]

Images



ARG83321 Human LPL / Lipoprotein Lipase ELISA Kit standard curve image

ARG83321 Human LPL / Lipoprotein Lipase ELISA Kit results of a typical standard run with optical density reading at 450 nm.