Human lipoprotein lipase(LPL)ELISA Kit

Product Code	CSB-E08493h
Protein Biological Process 2	Lipogenesis and lipometabolism
Abbreviation	LPL
Protein Biological Process 1	Biosynthesis/Metabolism
Target Name	lipoprotein lipase
Uniprot No.	P06858
Alias	HDLCQ11, LIPD
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Lipid degradation
Sample Types	serum, plasma, tissue homogenates
Detection Range	31.25 pg/mL-2000 pg/mL
Sensitivity	7.81 pg/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Metabolism
Gene Names	LPL
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human LPL ELISA Kit was designed for the quantitative measurement of Human LPL protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 31.25 pg/mL-2000 pg/mL and the sensitivity is 7.81 pg/mL .
Target Details	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.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of human LPL in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)
1:100	Average %	90
	Range %	84-97
1:200	Average %	95
	Range %	89-99
1:400	Average %	99
	Range %	95-104
1:800	Average %	92
	Range %	88-95

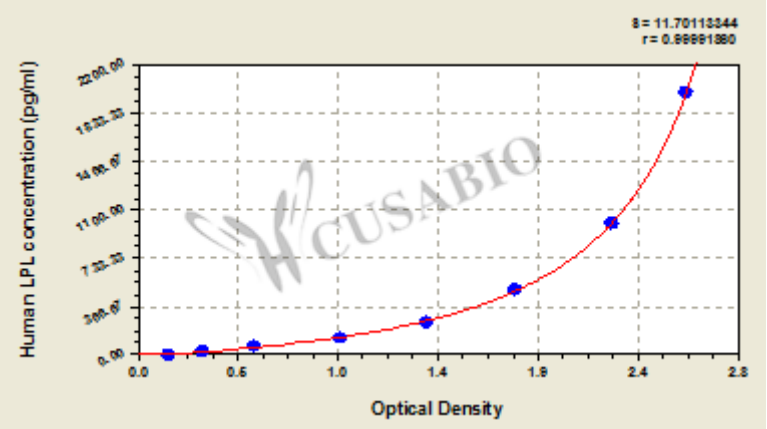
Recovery

The recovery of human LPL spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	89	84-96
EDTA plasma (n=4)	93	89-98

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



pg/ml	OD1	OD2	Average	Corrected
2000	2.579	2.599	2.589	2.435
1000	2.264	2.215	2.240	2.086
500	1.798	1.771	1.785	1.631
250	1.369	1.370	1.370	1.216
125	0.942	0.982	0.962	0.808
62.5	0.555	0.569	0.562	0.408
31.25	0.306	0.321	0.314	0.160
0	0.153	0.155	0.154	?

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