Human Lysosomal acid lipase/cholesteryl ester hydrolase(LIPA) ELISA kit

Product Code	CSB-EL012972HU
Protein Biological Process 2	Lipogenesis and lipometabolism
Abbreviation	LIPA
Protein Biological Process 1	Biosynthesis/Metabolism
Target Name	lipase A, lysosomal acid, cholesterol esterase
Uniprot No.	P38571
Alias	CESD, LAL, OTTHUMP00000020068|cholesterol ester hydrolase|lipase A|lysosomal acid lipase|sterol esterase
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Lipid degradation
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	62.5 pg/mL-4000 pg/mL
Sensitivity	15.6 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	LIPA
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human LIPA ELISA Kit was designed for the quantitative measurement of Human LIPA protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 62.5 pg/mL-4000 pg/mL and the sensitivity is 15.6 pg/mL.
Target Details	This gene encodes lipase A, the lysosomal acid lipase (also known as cholesterol ester hydrolase). This enzyme functions in the lysosome to catalyze

the hydrolysis of cholesteryl esters and triglycerides. Mutations in this gene can result in Wolman disease and cholesteryl ester storage disease. Alternatively spliced transcript variants encoding the same protein have been found for this gene.

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 LIPA 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)
1:1	Average %	87
	Range %	82-90
1:2	Average %	105
	Range %	101-09
1:4	Average %	88
	Range %	85-91
1:8	Average %	94
	Range %	91-99

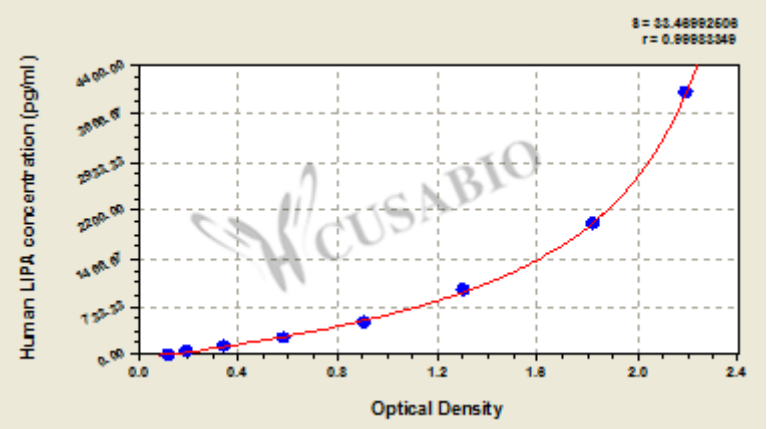
Recovery

The recovery of human LIPA 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)	86	82-90
EDTA plasma (n=4)	94	90-100

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
4000	2.142	2.168	2.155	2.023
2000	1.851	1.732	1.792	1.660
1000	1.264	1.297	1.281	1.149
500	0.898	0.887	0.893	0.761
250	0.563	0.598	0.581	0.449
125	0.352	0.346	0.349	0.217
62.5	0.201	0.206	0.204	0.072
0	0.131	0.133	0.132	

Msds

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