



Human lactate dehydrogenase A (LDHA) ELISA kit

Product Code	CSB-E17850h
Protein Biological Process 2	glyconeogenesis and glycometabolism
Abbreviation	LDHA
Protein Biological Process 1	Biosynthesis/Metabolism
Target Name	lactate dehydrogenase A
Uniprot No.	P00338
Alias	GSD11, LDH1, LDHM, PIG19, LDH muscle subunit lactate dehydrogenase M proliferation-inducing gene 19 renal carcinoma antigen NY-REN-59
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Glycolysis
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	31.25 mU/mL-2000 mU/mL
Sensitivity	7.81 mU/MI
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	LDHA
Tag Info	quantitative
Protein Description	Sandwich

Description

This Human LDHA ELISA Kit was designed for the quantitative measurement of Human LDHA protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 31.25 mU/mL-2000 mU/mL and the sensitivity is 7.81 mU/MI.

Target Details

This protein catalyzes the conversion of L-lactate and NAD to pyruvate and NADH in the final step of anaerobic glycolysis. The protein is found predominantly in muscle tissue and belongs to the lactate dehydrogenase family. Mutations in this gene have been linked to exertional myoglobinuria.



Multiple transcript variants encoding different isoforms have been found for this gene. The human genome contains several non-transcribed pseudogenes of 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 LDHA 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 %	88
	Range %	81-92
1:2	Average %	99
	Range %	94-102
1:4	Average %	101
	Range %	97-105
1:8	Average %	94
	Range %	88-98

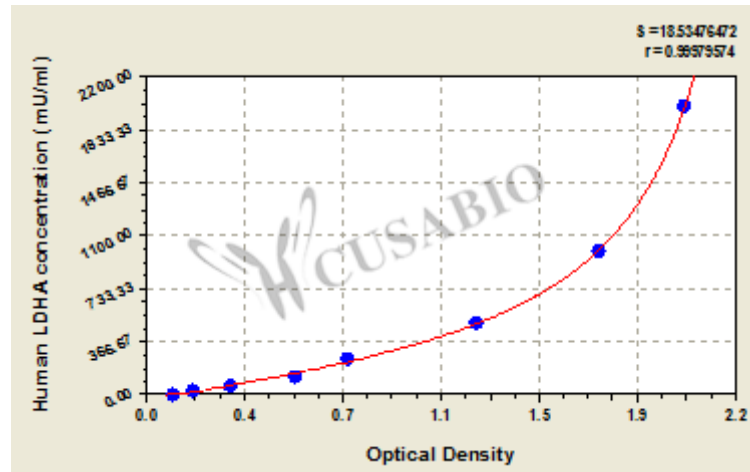
Recovery

The recovery of human LDHA 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)	93	89-96
EDTA plasma (n=4)	96	94-98

Typical

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



mU/ml OD1 OD2 Average Corrected

2000	2.101	1.952	2.027	1.914
1000	1.676	1.734	1.705	1.592
500	1.252	1.238	1.245	1.132
250	0.768	0.758	0.763	0.650
125	0.566	0.568	0.567	0.454
62.5	0.328	0.321	0.325	0.212
31.25	0.179	0.185	0.182	0.069
0	0.114	0.112	0.113	?

Msds

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