



# Mouse L-lactate dehydrogenase A chain(LDH-A)ELISA Kit

|                                     |  |
|-------------------------------------|--|
| <b>Product Code</b>                 | CSB-E17733m  |
| <b>Protein Biological Process 2</b> | glyconeogenesis and glycometabolism  |
| <b>Abbreviation</b>                 | LDHA   |
| <b>Protein Biological Process 1</b> | Biosynthesis/Metabolism  |
| <b>Target Name</b>                  | lactate dehydrogenase A  |
| <b>Uniprot No.</b>                  | P06151   |
| <b>Alias</b>                        | GSD11, LDH1, LDHM, PIG19, LDH muscle subunit lactate dehydrogenase M proliferation-inducing gene 19 renal carcinoma antigen NY-REN-59  |
| <b>Product Type</b>                 | ELISA Kit  |
| <b>Immunogen Species</b>            | Mus musculus (Mouse)   |
| <b>Protein Biological Process 3</b> | Glycolysis   |
| <b>Sample Types</b>                 | serum, plasma, tissue homogenates  |
| <b>Detection Range</b>              | 0.156 mU/mL-10 mU/mL   |
| <b>Sensitivity</b>                  | 0.039 mU/mL  |
| <b>Assay Time</b>                   | 1-5h   |
| <b>Sample Volume</b>                | 50-100ul   |
| <b>Detection Wavelength</b>         | 450 nm   |
| <b>Lead Time</b>                    | 3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.   |
| <b>Research Area</b>                | Metabolism   |
| <b>Gene Names</b>                   | Ldha   |
| <b>Tag Info</b>                     | quantitative   |
| <b>Protein Description</b>          | Competitive  |
| <b>Description</b>                  | This Mouse LDHA ELISA Kit was designed for the quantitative measurement of Mouse LDHA protein in serum, plasma, tissue homogenates. It is a Competitive ELISA kit, its detection range is 0.156 mU/mL-10 mU/mL and the sensitivity is 0.039 mU/mL. |
| <b>Target Details</b>               | 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 mouse LDH-A 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 % | 100        |
|       | Range %   | 95-106     |
| 1:200 | Average % | 88         |
|       | Range %   | 84-93      |
| 1:400 | Average % | 107        |
|       | Range %   | 103-110    |
| 1:800 | Average % | 86         |
|       | Range %   | 83-90      |

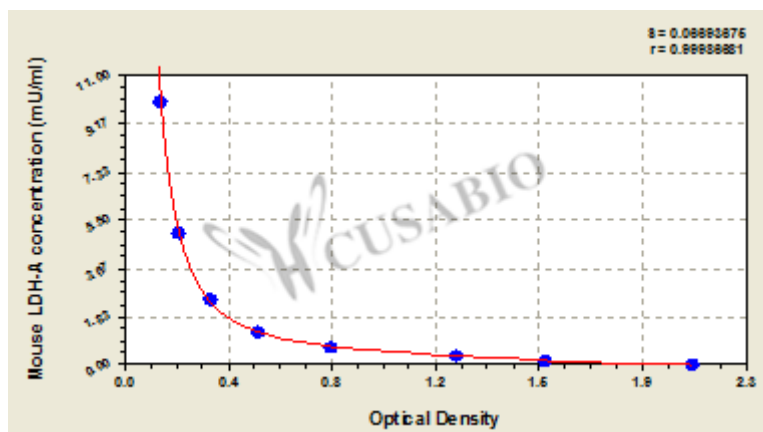
## Recovery

The recovery of mouse LDH-A 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)       | 101                | 96-108 |
| EDTA plasma (n=4) | 85                 | 81-90  |

## 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

|       |       |       |       |
|-------|-------|-------|-------|
| 10    | 0.144 | 0.148 | 0.146 |
| 5     | 0.215 | 0.211 | 0.213 |
| 2.5   | 0.325 | 0.331 | 0.328 |
| 1.25  | 0.508 | 0.499 | 0.504 |
| 0.625 | 0.763 | 0.778 | 0.771 |
| 0.312 | 1.230 | 1.241 | 1.236 |
| 0.156 | 1.561 | 1.570 | 1.566 |
| 0     | 2.180 | 2.034 | 2.107 |