

Mouse L-lactate dehydrogenase B chain (LDHB) ELISA Kit



Catalog No: #EK10136

Orders: order@signalwayantibody.com

Package Size: #EK10136-1 48T #EK10136-2 96T

Support: tech@signalwayantibody.com

Description

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|--------------------|--|
| Product Name | Mouse L-lactate dehydrogenase B chain (LDHB) ELISA Kit |
| Brief Description | ELISA Kit |
| Applications | ELISA |
| Species Reactivity | Mouse (<i>Mus musculus</i>) |
| Other Names | LDH-H; TRG-5; L-lactate dehydrogenase B OTTHUMP00000165229 |
| Accession No. | P16125 |
| Uniprot | P16125 |
| GeneID | 16832; |
| Storage | <p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p> |

Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.055 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:Sandwich Test principle:This assay employs a two-site sandwich ELISA to quantitate LDHB in samples. An antibody specific for LDHB has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyLDHB present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for LDHB is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of LDHB bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**LDHB and peptidase B are linked (Santachiara et al., 1970) and both loci are on chromosome 12 (Chen et al., 1973). Kitamura et al. (1971) reported the first case of a complete deficiency of lactate dehydrogenase subunit H(B) in serum, saliva and erythrocytes of a 64-year-old male with mild diabetes. Study made on family members revealed low LDH activity in their serum also linked with decreased relative activity of the H4(B4) fraction. Based on the comparison of the calculated ratio of H to M subunits in normal and affected family members, it was hypothesized that the proband is homozygous while the abnormal family members are heterozygous, assuming a single gene is involved. Red cell metabolism in the proband was studied by Miwa et al. (1971); neither reticulocytosis nor hemolytic anemia was present.

Note: This product is for in vitro research use only