

Datasheet for ABIN367562 Lactate Dehydrogenase A ELISA Kit

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Overview

Quantity:	96 tests
Target:	Lactate Dehydrogenase A (LDHA)
Reactivity:	Rat
Method Type:	Sandwich ELISA
Detection Range:	39-2500 mU/mL
Minimum Detection Limit:	39 mU/mL
Application:	ELISA
Product Details	
Purpose:	This immunoassay kit allows for the in vitro quantitative determination of Rat L-LDH
	concentrations in serum, plasma and other biological fluids.
Sample Type:	Serum, Plasma, Tissue Homogenate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This assay has high sensitivity and excellent specificity for detection of Rat LDHA.
Cross-Reactivity (Details):	Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity
	detection between the target antigen and all analogues for other species. Therefore, cross reaction may still exist.
Sensitivity:	9.77 mU/mL
Components:	Assay plate (12 × 8 coated Microwells)

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- Standard (freeze dried)
- Biotin-antibody (100 × concentrate)
- HRP-avidin (100 × concentrate)
- Biotin-antibody Diluent
- HRP-avidin Diluent
- Sample Diluent
- Wash Buffer (25 × concentrate)
- TMB Substrate
- Stop Solution
- Adhesive Strip (for 96 wells)
- Instruction manual

Target Details

Target:	Lactate Dehydrogenase A (LDHA)
Alternative Name:	lactate dehydrogenase A (LDHA Products)
Background:	Synonyms: GSD11, LDH1, LDHM, PIG19, LDH muscle subunit lactate dehydrogenase M proliferation-inducing gene 19 renal carcinoma antigen NY-REN-59
HGNC:	6535
UniProt:	P13491
Pathways:	Warburg Effect

Application Details

y. The user should calculate the possible amount of the samples used in the whole test. se reserve sufficient samples in advance. ples to be used within 5 days may be stored at 2-8°C, otherwise samples must be stored 0°C (≤ 1 month) or -80°C (≤ 2 months) to avoid loss of bioactivity and contamination. sly hemolyzed samples are not suitable for use in this assay.
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e samples are not indicated in the manual, a preliminary experiment to determine the
ity of the kit is necessary.
se predict the concentration before assaying. If values for these are not within the range
e standard curve, users must determine the optimal sample dilutions for their particular
riments.
ue or cell extraction samples prepared by chemical lysis buffer may cause unexpected
A results due to the impacts of certain chemicals.
g to the possibility of mismatching between antigens from another resource and
odies used in this supplier's kits (e.g., antibody targets conformational epitope rather

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- Influenced by factors including cell viability, cell number and cell sampling time, samples from cell culture supernatant may not be recognized by the kit.
- Fresh samples without long time storage are recommended for the test. Otherwise, protein degradation and denaturalization may occur in those samples and finally lead to wrong results.

Comment:

Detection wavelength: 450 nm

Information on standard material:

Depending on the antigen to be detected, standards can be either native or recombinant protein. The recombinant proteins are being expressed in CHO cells in most cases. Please inquire for more information. The formulation of auxiliary material in the standard is considered proprietary information, however it does not contain any poisonous substance. Proclin 300 (1:3000) is used as preservative.

Information on reagents:

In most cases the stop solution provided is 1 N H2SO4. The formulation of wash solution is proprietary information. None of the components contain (sodium) azide, thimerosal, 2-mercaptoethanol (2-ME) or any other poisonous materials. For the sandwich method kits, the sample diluent, antibody diluent, enzyme diluent and standard all contain BSA.

Information on antibodies:

The antibodies provided in different kits vary in regards to clonality and host. Some antibodies are affinity purified, some are Protein A

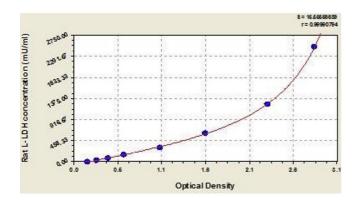
Sample Volume:	100 µL
Assay Time:	1 - 4.5 h
Plate:	Pre-coated
Protocol:	Antibody specific for LDHA has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any LDHA present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for LDHA is added to the wells. After washing, avidin 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 LDHA bound in the initial step.
	The color development is stopped and the intensity of the color is measured.

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contaminated water or container for reagent preparation will influence detection result.
 Note: Kindly use graduated containers to prepare the reagent. Please don't prepare the reagent directly in the Diluent vials provided in the kit. Bring all reagents to room temperature (18-25°C) before use for 30 min. Prepare fresh standard for each assay. Use within 4 hours and discard after use. Making serial dilution in the wells directly is not permitted. Please carefully reconstitute Standards according to the instruction. Avoid foaming and mix gently until the crystals have completely dissolved. To minimize imprecision caused by pipetting, use small volumes and ensure that pipettors are calibrated. It is recommended to suck more than 10µL when pipetting. It is recommended to use distilled water to prepare reagents and samples. Using
 HRP-avidin (1×) - Centrifuge the vial before opening. HRP-avidin requires a 100-fold dilution. The suggested dilution is 10µL of HRP-avidin + 990µL of HRP-avidin Diluent. Wash Buffer (1×) - If crystals have formed in the concentrate, warm up to room temperature and mix gently until the crystals have completely dissolved. Dilute 20mL of Wash Buffer Concentrate (25×) into deionized or distilled water to prepare 500mL of Wash Buffer (1×). Standard - Centrifuge the standard vial at 6000-10000rpm for 30s. Reconstitute the Standard with 1ml of Sample Diluent. Do not substitute other diluents. This reconstitution produces a stock solution. Mix the standard to ensure complete reconstitution and allow the standard to sit for a minimum of 15 minutes with gentle agitation prior to making dilutions. Pipette 250µL of Sample Diluent into each tube. Use the stock solution to produce a 2-fold dilution series. Mix each tube thoroughly before the next transfer. The undiluted Standard serves as the high standard. Sample Diluent serves as the zero standard (0ng/mL).

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	protection when using this material.
Handling Advice:	 The kit should not be used beyond the expiration date on the kit label. Do not mix or substitute reagents with those from other lots or sources. If samples generate values higher than the highest standard, dilute the samples with Sample Diluent and repeat the assay. Any variation in Sample Diluent, operator, pipetting technique, washing technique, incubation time/temperature and kit age can cause variation in binding. This assay is designed to eliminate interference by soluble receptors, binding proteins and other factors present in biological samples. Until all factors have been tested in the Immunoassay, the possibility of interference cannot be excluded.
Storage:	4 °C/-20 °C
Storage:	
Storage Comment:	For unopened kit: All the reagents should be kept according to the labels on vials.
Expiry Date:	6 months
Publications	
1 donoution o	
Product cited in:	Chen, Zheng, Song, Xue, Liang, Yan, Luo: "Pretreatment with low-dose gadolinium chloride
	Chen, Zheng, Song, Xue, Liang, Yan, Luo: "Pretreatment with low-dose gadolinium chloride attenuates myocardial ischemia/reperfusion injury in rats." in: Acta pharmacologica Sinica , Vo
	attenuates myocardial ischemia/reperfusion injury in rats." in: Acta pharmacologica Sinica, Vo
	attenuates myocardial ischemia/reperfusion injury in rats." in: Acta pharmacologica Sinica , Vo 37, Issue 4, pp. 453-62, (2017) (PubMed).
	attenuates myocardial ischemia/reperfusion injury in rats." in: Acta pharmacologica Sinica , Vo 37, Issue 4, pp. 453-62, (2017) (PubMed). Zheng, Zhang, Yan, Chen, Qi, Zhang, Luo: "Protective effect of low dose gadolinium chloride
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	attenuates myocardial ischemia/reperfusion injury in rats." in: Acta pharmacologica Sinica, Vo 37, Issue 4, pp. 453-62, (2017) (PubMed). Zheng, Zhang, Yan, Chen, Qi, Zhang, Luo: "Protective effect of low dose gadolinium chloride against isoproterenol-induced myocardial injury in rat." in: Apoptosis : an international journal on programmed cell death, Vol. 20, Issue 9, pp. 1164-75, (2015) (PubMed).
	 attenuates myocardial ischemia/reperfusion injury in rats." in: Acta pharmacologica Sinica, Vo 37, Issue 4, pp. 453-62, (2017) (PubMed). Zheng, Zhang, Yan, Chen, Qi, Zhang, Luo: "Protective effect of low dose gadolinium chloride against isoproterenol-induced myocardial injury in rat." in: Apoptosis : an international journal on programmed cell death, Vol. 20, Issue 9, pp. 1164-75, (2015) (PubMed). Nirala, Perumal, Gohil: "Glycated serum albumin stimulates expression of endothelial cell



ELISA

Image 1. Typical standard curve

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