

Rat L-lactate dehydrogenase B chain ELISA Kit | Ldhb elisa kit

Rat L-lactate dehydrogenase B chain ELISA Kit

CATALOG #
AAA101684

REACTIVITY
Rat

PRODUCT SYNONYMS

L-lactate dehydrogenase B chain; Rat L-lactate dehydrogenase B chain ELISA Kit; Ldhb/LDH-B/LDH-H; Ldhb elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of LBP. No significant cross-reactivity or interference between LBP and analogues was observed.
Sequence Length	341
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	1.563-100ng/ml
Sensitivity	0.938ng/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level LBP were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level LBP were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES

Typical Data & Standard Curve

Results of a typical standard operation of a Ldhb ELISA Kit are listed below. This standard curve was generated at our lab for demonstration purpose only. Users shall obtain standard curve as per experiment by themselves. (N/A-not applicable)

X	ng/ml	0	1.562	3.125	6.25	12.5	25	50	100
Y	OD450	0.136	0.187	0.235	0.286	0.453	0.752	1.365	2.412

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Ldhb elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-LBP antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-LBP antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and washed with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the LBP amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of LBP can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	937827788
NCBI GeneID	3945
NCBI Accession #	NP_001302466.1
NCBI GenBank Nucleotide #	NM_001315537.1
Molecular Weight	36,638 Da
NCBI Official Full Name	L-lactate dehydrogenase B chain isoform LDHBx
NCBI Official Synonym Full Names	lactate dehydrogenase B
NCBI Official Symbol	LDHB
NCBI Official Synonym Symbols	LDH-B; LDH-H; LDHBD; TRG-5; HEL-S-281
NCBI Protein Information	L-lactate dehydrogenase B chain
UniProt Protein Name	L-lactate dehydrogenase B chain
UniProt Gene Name	LDHB
UniProt Synonym Gene Names	LDH-B; LDH-H
UniProt Entry Name	LDHB_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/ldhb-rat-elisa-kits/l-lactate-dehydrogenase-b-chain/101684>