NKMAXBio We support you, we believe in your research Recombinant mouse Lactate Dehydrogenase B/LDHB protein Catalog Number: ATGP3643

### **PRODUCT INFORMATION**

**Expression system** E.coli

**Domain** 1-334aa

**UniProt No.** P16125

NCBI Accession No. NP\_032518

Alternative Names

L-lactate dehydrogenase B chain isoform Ldhb, AI790582, H-Ldh, Ldh-2, LDH-B, LDH-H, Ldh2, LDH heart subunit

# **PRODUCT SPECIFICATION**

**Molecular Weight** 39 kDa (357aa) confirmed by MALDI-TOF

Concentration 1mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol

**Purity** > 95% by SDS-PAGE

**Endotoxin level** < 1 EU per 1ug of protein (determined by LAL method)

### **Biological Activity**

Specific activity is > 150unit/mg, in which one unit will convert 1.0 umole of pyruvate to L-lactate and beta-NAD per minute at pH 7.5.

Tag His-Tag

Application SDS-PAGE, Enzyme Activity

### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

### BACKGROUND



### Description

Ldhb, also known as L-lactate dehydrogenase B chain isoform Ldhb, is a member of the lactate dehydrogenase family. It is an oxidoreductase which catalyses the interconversion of pyruvate and lactate with concomitant interconversion of NADH and NAD+. As this protein can also catalyze the oxidation of hydroxybutyrate, it is occasionally called Hydroxybutyrate Dehydrogenase (HBD). The LDH family consists of three members, LDH-A, LDH-B and LDH-C. LDHs function as powerful markers for germ cell tumors. Recombinant mouse Ldhb protein, fused to His-tagging at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

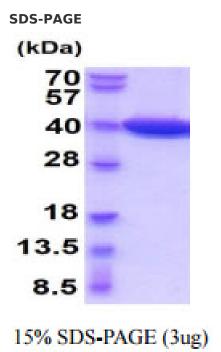
### **Amino acid Sequence**

MGSSHHHHHH SSGLVPRGSH MGSMATLKEK LIASVADDEA AVPNNKITVV GVGQVGMACA ISILGKSLAD ELALVDVLED KLKGEMMDLQ HGSLFLQTPK IVADKDYSVT ANSKIVVVTA GVRQQEGESR LNLVQRNVNV FKFIIPQIVK YSPDCTIIVV SNPVDILTYV TWKLSGLPKH RVIGSGCNLD SARFRYLMAE KLGIHPSSCH GWILGEHGDS SVAVWSGVNV AGVSLQELNP EMGTDNDSEN WKEVHKMVVD SAYEVIKLKG YTNWAIGLSV ADLIESMLKN LSRIHPVSTM VKGMYGIENE VFLSLPCILN ARGLTSVINQ KLKDDEVAQL RKSADTLWDI QKDLKDL

### **General References**

Read JA., et al. (2001) Proteins. 43(2):175-85. Butt AA., et al. (2002) AIDS Read. 12(7):317-21

## DATA



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.