

Active Recombinant Human LDHB Protein, His tagged

Cat. No. LDHB-2570H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human LDHB Protein with His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-334 aa
Description	This gene encodes the B subunit of lactate dehydrogenase enzyme, which catalyzes the interconversion of pyruvate and lactate with concomitant interconversion of NADH and NAD ⁺ in a post-glycolysis process. Alternatively spliced transcript variants have been found for this gene. Recent studies have shown that a C-terminally extended isoform is produced by use of an alternative in-frame translation termination codon via a stop codon readthrough mechanism, and that this isoform is localized in the peroxisomes. Mutations in this gene are associated with lactate dehydrogenase B deficiency. Pseudogenes have been identified on chromosomes X, 5 and 13.
Form	Sterile 20mM Tris, 10% Glycerol, 1mM DTT, pH8.0
Bio-activity	Specific activity is 105 unit/mg, in which one unit will convert 1.0 μmole of pyruvate to L-lactate and beta-NAD per minute at pH 7.5 at 37 centigrade.
Molecular Mass	39 kDa
AASequence	MGSSHHHHHHSSGLVPRGSHMATLKEKLIAPVAEEEEATVPNNKITVVGVGQVGMAC

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AISILGKSLADELALVDVLEDKLGEMMDLQHGSFLQTPKIVADKDYSVTANSKIVVV
TAGVRQQEGESRLNLVQRNVNVFKFIIPQIVKYSPDCIIVVSNPVDILTYVTWKLSGL
PKHRVIGSGCNLDSARFRYLMAEKLGIHPSSCHGWILGEHGDSSVAVWSGVNVAGV
SLQELNPEMGTDNDSENWKEVHKMVVESAYEVIKLGTYTNWAIGLSVADLIESMLK
NLSRIHPVSTMVKGMYGIENEVFLSLPCILNARGLTSVINQKLKDDEVAQLKKSADTL
WDIQKDLKDL

Endotoxin < 1 EU/μg by LAL

Purity > 90% by SDS-PAGE

Storage Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Concentration 1 mg/mL by Bradford

GENE INFORMATION

Gene Name LDHB lactate dehydrogenase B [Homo sapiens (human)]

Official Symbol LDHB

Synonyms LDHB; lactate dehydrogenase B; L-lactate dehydrogenase B chain; LDH heart subunit; lactate dehydrogenase H chain; renal carcinoma antigen NY-REN-46; LDH-B; LDH-H; LDHBD; TRG-5

Gene ID 3945

mRNA Refseq NM_001174097

Protein Refseq NP_001167568

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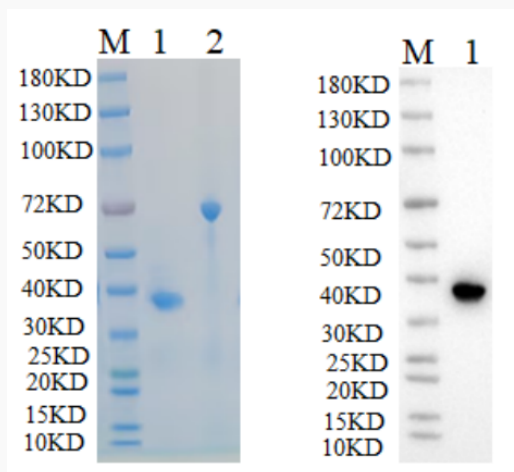
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MIM 150100

UniProt ID P07195

SDS-PAGE and WB



Reducing 4%-20% SDS-PAGE (CBB stained) and WB (Anti-His Mouse Monoclonal antibody) analysis profiles of purified LDHB. 1. LDHB: 1 μ g 2. BSA: 1 μ g

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