

Recombinant human Lactate Dehydrogenase B/LDH-B protein ab96765

[1 Image](#)

Description

Product name	Recombinant human Lactate Dehydrogenase B/LDH-B protein
Biological activity	Specific activity is > 300 units/mg. in which one unit will convert 1.0 umole of pyruvate to L-lactate and beta-NAD per minute at pH 7.5 at 37°C.
	Activity Assay
	Prepare a 1.5 ml reaction mix into a suitable container, adjust to pH7.5 at 37°C, and pre-chill on ice before use: The final concentrations are 100mM Sodium phosphate, 0.12 mM beta-nicotinamide adenine dinucleotide, reduced form, 2.3mM Pyruvate, 0.033% (w/v) bovine serum albumin.
	Equilibrate to 37°C and monitor at A340nm until the value is constant using a spectrophotometer
	Add 50ul of recombinant LDHB protein in various concentrations (0.1ug, 0.5ug) in assay buffer.
	Mix by inversion and record the increase at A340nm for 5 minutes.
Purity	> 95 % SDS-PAGE. ab96765 is purified by using conventional chromatography techniques.
Expression system	Escherichia coli
Accession	<u>P07195</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	

MGSSHHHHHH
SSGLVPRGSHMATLKEKLIAPVAEEEEATVP
 NNKITVVGVGQVGMACAISILGKSLADELALVDVLEDKLLG
 EMDLQHG
 LFLQTPKMADKDYSVTANSKIMVVVTAGVRQQEGESRLNLV
 QRNVNVFKF
 IIPQVKYSPDCIIVVSNPVDILTIVTWKLSGLPKHRVIGSGC
 NLDSAR
 FRYLMAEKLGIHPSSCHGWILGEHGDSSVAVWVSGVNVAG
 VSLQELNPEMG
 TDNSENWKEVHKM/VVESAYEVIKLGKGYTNWAIGLSVADL

IESMLKNLSR
IHPVSTMVKGMYGIENEVFLSLPCILNARGLTSVINQKLKDD
EVAQLKKS ADTLWDIQKDLKDL

Predicted molecular weight	37 kDa including tags
Amino acids	1 to 334
Tags	His tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab96765** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Mass Spectrometry SDS-PAGE
Mass spectrometry	MALDI-TOF
Form	Liquid
Additional notes	Previously labelled as Lactate Dehydrogenase B.

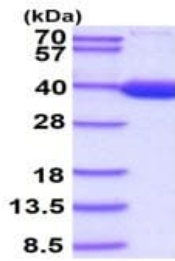
Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 0.0154% DTT, 0.316% Tris HCl, 10% Glycerol This product is an active protein and may elicit a biological response in vivo, handle with caution.
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General Info

Pathway	Fermentation; pyruvate fermentation to lactate; (S)-lactate from pyruvate: step 1/1.
Involvement in disease	Note=Defects in LDHB result in deficiency of lactate dehydrogenase, a condition with no clear symptomatic consequences. Lactate dehydrogenase deficiency can probably be considered a non-disease.
Sequence similarities	Belongs to the LDH/MDH superfamily. LDH family.
Cellular localization	Cytoplasm.

Images



15% SDS-PAGE showing ab96765 at approximately 38.8kDa (3µg).

SDS-PAGE - Recombinant human Lactate Dehydrogenase B/LDH-B protein (ab96765)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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