

Recombinant Human LDHA, GST-tagged

Cat. No. LDHA-261H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human LDHA(1 a.a. - 332 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.
Species	Human
Source	Wheat Germ
Description	The protein encoded by this gene catalyzes the conversion of L-lactate and NAD to pyruvate and NADH in the final step of anaerobic glycolysis. The protein is found predominantly in muscle tissue and belongs to the lactate dehydrogenase family. Mutations in this gene have been linked to exertional myoglobinuria. Multiple transcript variants encoding different isoforms have been found for this gene. The human genome contains several non-transcribed pseudogenes of this gene.
Molecular Mass	63.1 kDa
AA Sequence	MATLKDQLIYNLLKEEQTPQNKITVVGVGAVGMACAISILMKDLADELALVDVIEDKLK GEMMDLQHGSFLRTP KIVSGKDYNVTANSKLVITAGARQQEGESRLNLVQRNVNI FKFIIPNVVKYSPNCKLLIVSNPVDILTIVAWKI SGFPKNRVIGSGCNLDSARFRYLMG ERLGVHPLSCHGWVLGEHGDSSVPVWSGMNVAGVSLKTLHPDLGTDKDKE QWKE VHKQVVESAYEVIKLGKGYTSAIGLSVADLAESIMKNLRRVHPVSTMIKGLYGKDDV FLSVPCILGQNGI SDLVKVTLTSEEEARLKKSADTLWGIQKELQF
Applications	ELISA; WB-Re; AP; Array

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Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
GENE INFORMATION	
Gene Name	LDHA lactate dehydrogenase A [Homo sapiens (human)]
Official Symbol	LDHA
Synonyms	LDHA; lactate dehydrogenase A; LDH1; LDHM; GSD11; PIG19; L-lactate dehydrogenase A chain; LDH-A; LDH-M; LDH muscle subunit; lactate dehydrogenase M; proliferation-inducing gene 19; renal carcinoma antigen NY-REN-59; cell proliferation-inducing gene 19 protein; EC 1.1.1.27
Gene ID	3939
mRNA Refseq	NM_005566
Protein Refseq	NP_005557
MIM	150000
UniProt ID	P00338
Chromosome Location	11p15.4
Pathway	Central carbon metabolism in cancer; Cysteine and methionine metabolism; Glycolysis / Gluconeogenesis

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Function

L-lactate dehydrogenase activity; protein binding

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