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**LDHB, 1-334aa, Human, E.coli (Bioactivity Validated)**

**Cat.NO.: TP02795**

3th Edition

**Synonyms:**Lactate dehydrogenase B, HEL-S-281, LDH-B, LDH-H, LDHBD, TRG-5, Epididymis secretory protein Li 281, HEL S 281, L lactate dehydrogenase B chain.

**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<sup>+</sup>. As this protein can also catalyze the oxidation of hydroxybutyrate. The LDH family consists of three members, LDH-A, LDH-B and LDH-C. LDHs function as powerful markers for germ cell tumors. Recombinant human LDHB protein was expressed in E.coli and purified by using conventional chromatography techniques.

**Form:**Liquid. In 20mM Tris-HCl (pH 8.0) containing 10% glycerol, 1mM DTT

**Molecular Weight:**36.6kDa (334aa), confirmed by MALDI-TOF

**Sequences:**

MATLKEKLIAPVAEEEEATVPNNKITVVGVGQVGMACAISILGKSLADELALVDVLEDKLGEMMDLQHGSLFLQTPKI  
VADKDYSVTANSKIVVVTAGVRQQEGESRLNLVQRNVNVFKFIIPQIVKYSPDCIIIVVSNPVDILTYVTWKL SGLPKH  
RVIGSGCNLDSARFRYLMAEKLGIHPSSCHGWILGEHGDSSVAVWSGVNVAGVSLQELNPEMGTDNDSSENWKEV  
HKMVVESAYEVIKLGKGYTNWAIGLSVADLIESMLKNLSRIHPVSTMVKGMYGIENEVFLSLPCILNARGLT SVINQKLK  
DDEVAQLKKSADTLWDIQKDLKDL

**Purity:**> 95% by HPLC

**Concentration:**1mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.