



**P91370Ra01**

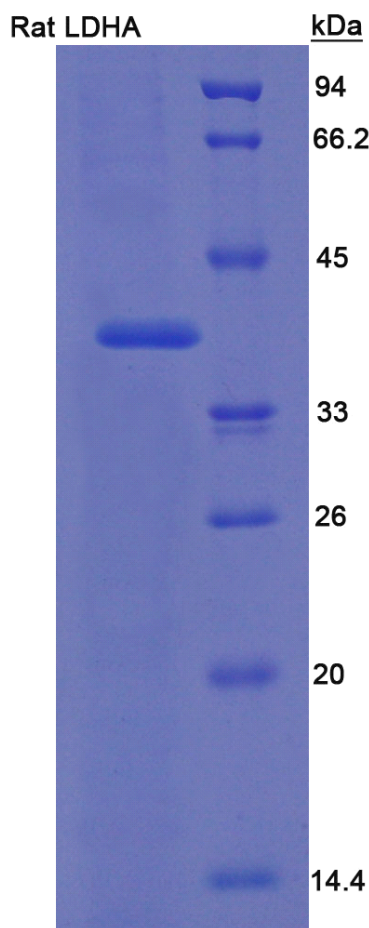
**Lactate Dehydrogenase A (LDHA)**

**Organism: Rattus norvegicus (Rat)**

***Instruction manual***

FOR IN VITRO USE AND RESEARCH USE ONLY  
NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES

3th Edition (Revised in February, 2012)



### [ DESCRIPTION ]

**Protein Names:** Lactate Dehydrogenase A

**Gene Names:** LDHA, Ldh-1, Ldh1

**Size:** 100 $\mu$ g

**Source:** Recombinant

**Expression Host:** *E.coli*

**Subcellular Location:** Cytoplasm.

### [ PROPERTIES ]

**Residues:** Met1~Phe332 (Accession # P04642), with a N-terminal His-tag.

**Grade & Purity:** >97%, 38 kDa as determined by SDS-PAGE reducing conditions.

**Form & Buffer:** Supplied as lyophilized form in PBS, pH 7.4.

**Endotoxin Level:** <1.0 EU per 1 $\mu$ g (determined by the LAL method).

**Applications:** SDS-PAGE; WB; ELISA; IP.

(May be suitable for use in other assays to be determined by the end user.)

**Predicted Molecular Mass:** 38 kDa

15% Tris-glycine SDS-PAGE



## **[ PREPARATION ]**

Reconstitute in PBS.

## **[ STORAGE AND STABILITY ]**

**Storage:** Store at 4°C for short time storage (1-2 weeks). Aliquot and store at -20°C or -80°C for long term storage. Avoid repeated freeze/thaw cycles.

**Valid period:** 12 months stored at -80°C.

## **[ BACKGROUND ]**

The target protein is fused with a His-tag and its sequence is listed below. The first Met is an initiator amino acid. Moreover, Gly and Ser are added to improve the flexibility of N-terminus at both ends of the His-tag, which will increase the chelating ability of the tag to Ni-Sepharose during purification.

MGHHHHHSGSEF-MAALKDQLIV NLLKEEQVPQ NKITVVG VGA VGMACAISIL MKDLADELAL VDVIEDKLLKG  
EMMDLQHGSL FLKTPKIVSS KDYSVTANSK LVIITAGARQ QEGESRLNLV QRNVNIFKFI IPNVVKYSPQ  
CKLLIVSNPV DILTYVAWKI SGFPKNRVIG SGCNLD SARF RYLMGERLGV HPLSCHGWVL GEHGDSSVPV  
WSGVNVAGVS LKSLNPQLGT DADKEQWKDV HKQVVD SAYE VIKLKG YTSW AIGLSVADLA ESIMKNLRRV  
HPISTMIKGL YGIKEDVFLS VPCILGQNGI SDVVKVTLTP DEEARLK KSA DTLWGIQKEL QF

