Datasheet for ABIN7596270

Lactate Dehydrogenase A Protein (LDHA) (AA 1-332) (His tag)

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Overview

Quantity:	500 µg
Target:	Lactate Dehydrogenase A (LDHA)
Protein Characteristics:	AA 1-332
Origin:	Mouse
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Lactate Dehydrogenase A protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Enzyme Activity Assay (EAA)

Product Details

Sequence:	MATLKDQLIV NLLKEEQAPQ NKITVVGVGA VGMACAISIL MKDLADELAL VDVMEDKLKG EMMDLQHGSL FLKTPKIVSS KDYCVTANSK LVIITAGARQ QEGESRLNLV QRNVNIFKFI IPNIVKYSPH CKLLIVSNPV DILTYVAWKI SGFPKNRVIG SGCNLDSARF RYLMGERLGV HALSCHGWVL GEHGDSSVPV WSGVNVAGVS LKSLNPELGT DADKEQWKEV HKQVVDSAYE VIKLKGYTSW AIGLSVADLA ESIMKNLRRV HPISTMIKGL YGINEDVFLS VPCILGQNGI SDVVKVTLTP EEEARLKKSA DTLWGIQKEL QF
Purity:	> 95% by SDS-PAGE
Endotoxin Level:	< 1 EU per 1ug of protein (determined by LAL method)
Biological Activity Comment:	Specific activity is > 250unit/mg, and is defined as the Amount of enzyme that convert 1.0 umole of pyruvate to L-lactate and per minute at pH 7.5 at 37°C.

Target Details

Target:	Lactate Dehydrogenase A (LDHA)
Alternative Name:	Lactate Dehydrogenase A/LDHA (LDHA Products)
Background:	Ldha, also known as L-lactate dehydrogenase A chain isoform 1, is a member of the LDH/MDH superfamily and LDH family. It catalyzes the conversion of L-lactate and NAD to pyruvate and NADH in the final step of anaerobic glycolysis. This protein is found predominantly in muscle tissue. It has long been known that many human cancers have higher LDHA levels compared to normal tissues. It plays an important role in the development, invasion and metastasis of malignancies. Recombinant mouse Ldha, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Molecular Weight:	37.5 kDa (340aa)
NCBI Accession:	NP_034829
Pathways:	Warburg Effect

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.