Datasheet for ABIN6387821

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

1 Image

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Overview

Quantity:	50 µg
Target:	Lactate Dehydrogenase A (LDHA)
Protein Characteristics:	AA 1-332
Origin:	Rat
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:	MAALKDQLIV NLLKEEQVPQ NKITVVGVGA VGMACAISIL MKDLADELAL VDVIEDKLKG EMMDLQHGSL FLKTPKIVSS KDYSVTANSK LVIITAGARQ QEGESRLNLV QRNVNIFKFI IPNVVKYSPQ CKLLIVSNPV DILTYVAWKI SGFPKNRVIG SGCNLDSARF RYLMGERLGV HPLSCHGWVL GEHGDSSVPV WSGVNVAGVS LKSLNPQLGT DADKEQWKDV HKQVVDSAYE VIKLKGYTSW AIGLSVADLA ESIMKNLRRV HPISTMIKGL YGIKEDVFLS VPCILGQNGI SDVVKVTLTP DEEARLKKSA DTLWGIQKEL QFLEHHHHHH
Purity:	> 95% by SDS-PAGE
Endotoxin Level:	< 1 EU per 1ug of protein (determined by LAL method)
Biological Activity Comment:	Specific activity is > 200unit/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 37C.

Target Details

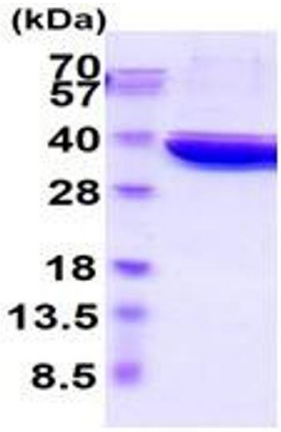
Target:	Lactate Dehydrogenase A (LDHA)
Alternative Name:	Lactate Dehydrogenase A/LDHA (LDHA Products)
Background:	Ldha, also known as lactate dehydrogenase A, catalyzes the conversion of pyruvate to lactate, utilizing NADH as a cofactor. It has been identified as a potential therapeutic target in the area of cancer metabolism. Reduction in Ldha activity resulted in stimulation of mitochondrial respiration and decrease of mitochondrial membrane potential. Recombinant rat 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_058721
UniProt:	P04642
Pathways:	Warburg Effect

Application Details

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

Handling

Format:	Liquid
Concentration:	0.25 mg/mL
Buffer:	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 1 mM DTT, 20 % glycerol.
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.



15% SDS-PAGE (3ug)

SDS-PAGE

Image 1.