Datasheet for ABIN2724571

Lactate Dehydrogenase A Protein (LDHA) (Transcript Variant 1) (Myc-DYKDDDDK Tag)

2 Images

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Overview

Quantity:	20 µg
Target:	Lactate Dehydrogenase A (LDHA)
Protein Characteristics:	Transcript Variant 1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Lactate Dehydrogenase A protein is labelled with Myc-DYKDDDDK Tag.
Application:	Antibody Production (AbP), Functional Studies (Func), Standard (STD), Protein Interaction (PI)

Product Details

Specificity:	Optimal preservation of protein structure, post-translational modifications and functions.
Characteristics:	• Recombinant human LDHA (transcript variant 1) protein expressed in HEK293 cells. • Produced with end-sequenced ORF clone • Tested for bioactivity.
Purity:	> 80 % as determined by SDS-PAGE and Coomassie blue staining
Biological Activity Comment:	Higher specific activity than endogenous human LDHA: OriGene human recombinant LDHA was compared side-by-side with purified human liver LDH5 in a spectrophotometric pyruvate to lactate conversion assay. Activity is shown as a decrease in absorbance at 340nm over time. The activity of recombinant human LDHA is comparable to that of endogenously expressed human LDH5.

Target Details

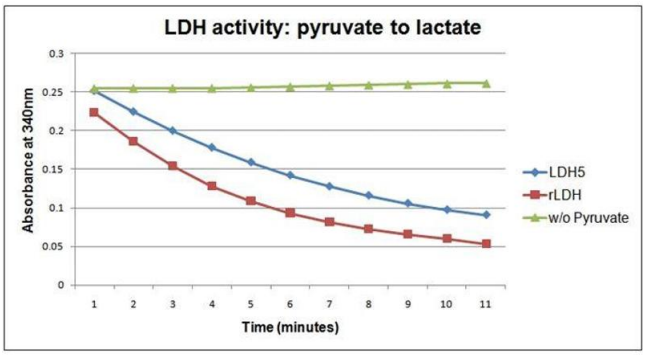
Target:	Lactate Dehydrogenase A (LDHA)
Alternative Name:	Ldha (LDHA Products)
Background:	The protein encoded by this gene catalyzes the conversion of L-lactate and NAD to pyruvate and NADH in the final step of anaerobic glycolysis. The protein is found predominantly in muscle tissue and belongs to the 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 Weight:	36.5 kDa
NCBI Accession:	NP_005557
Pathways:	Warburg Effect

Application Details

Application Notes:	Recombinant human proteins can be used for: Native antigens for optimized antibody production Positive controls in ELISA and other antibody assays Protein-protein interaction In vitro biochemical assays and cell-based functional assays
Comment:	The tag is located at the C-terminal.
Restrictions:	For Research Use only

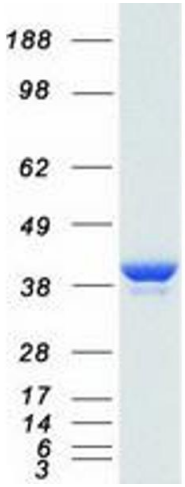
Handling

Concentration:	> 50 µg/mL
Buffer:	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10 % glycerol.
Storage:	-80 °C
Storage Comment:	Store at -80°C. Thaw on ice, aliquot to individual single-use tubes, and then re-freeze immediately. Only 2-3 freeze thaw cycles are recommended.



Activity Assay

Image 1. Bioactivity measured with Activity Assay



Western Blotting

Image 2. Validation with Western Blot