

# LDHA Knockdown 293T Cell Lysate, Heterozygous

**Catalog No.:** RM02019

## Basic Information

### Catalog No.

RM02019

### Category

Cell Lysate

### Parental Cell line

293T

### Genotype

Knockdown

## Gene Information

### Gene Symbol

LDHA

### Species

Human

### Gene ID

3939

### Swiss Prot

P00338

### Synonyms

GSD11; HEL-S-133P; LDHM; PIG19

## Contact

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## 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. [provided by RefSeq, Sep 2008]

## Product Information

### Description

LDHA Knockdown 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.

Allele-1:exon2 was deleted

Allele-2:WT

Mammalian cells such as human, rat and mouse cells are normally diploid with two alleles. Homozygote: both alleles were knocked out, mRNA has no signal, no expression of proteins. Heterozygote: only one allele was knocked out, the mRNA transcript levels was decreased compared to wild type, and the protein expression levels was also lower than that of the wild type.

### Packaging

1 vial parental cell Lysate and 1 vial knockout cell Lysate

### Shipping Conditions

4°C

### Amount

50μL, 2μg/μL.

### Storage

Lysate is stable for 12 months when stored at -20°C. Minimizing freeze-thaw cycles.

### Protocol

To be used as WB control. Lysate is supplied in 1× SDS sample buffer (2% SDS, 60 mM Tris-HCl pH 6.8, 10% Glycerol, 0.02% Bromophenol blue, 60 mM beta-mercaptoethanol). Lysate should be boiled for 3 - 5 minutes before loading onto gel.

## Sequencing data

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WT    TTCTAAAAATCTAG\*\*\*\*\*CTTAGGGTAGAGTG  
Mut   TTCTAAAAATCTAG\*\*\*Deletion\*\*\*CTTAGGGTAGAGTG  
Allele-1: exon2 was deleted

WT    GAAGTGGCAATTTCCATTAACTAAAGATTGATGTC  
Mut   GAAGTGGCAATTTCCATTAACTAAAGATTGATGTC  
Allele-2: WT

Genome sequence analysis of PCR products from parental (WT) and LDHA Knockdown (KD) 293T cells, using sanger sequencing.