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LDHB Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM50028

Basic Information

Catalog No.
RM50028

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Background

This gene encodes the B subunit of lactate dehydrogenase enzyme, which catalyzes the interconversion of pyruvate and lactate with concomitant interconversion of NADH and NAD+ in a post-glycolysis process. Alternatively spliced transcript variants have been found for this gene. Recent studies have shown that a C-terminally extended isoform is produced by use of an alternative in-frame translation termination codon via a stop codon readthrough mechanism, and that this isoform is localized in the peroxisomes. Mutations in this gene are associated with lactate dehydrogenase B deficiency. Pseudogenes have been identified on chromosomes X, 5 and 13.

Gene Information

Gene Symbol
LDHB

Species
Human

Gene ID
3945

Swiss Prot
P07195

Synonyms
LDH-B; LDH-H; LDHBD; TRG-5; HEL-S-281; LDHB

Product Information

Description
LDHB Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:134bp deletion in exon3
Allele-2:134bp deletion in exon3
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℃

Amount
50μL, 2μg/μL.

Storage
Lysate is stable for 12 months when stored at -20℃. 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.

Contact

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Sequencing data

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WT    CAGTGTAGCTCAAG**************TACAGTCCTGATTG
Mut   CAGTGTAGCTCAAG***Deletion***TACAGTCCTGATTG
AIlele-1:   134bp deletion in exon3

WT    CAGTGTAGCTCAAG**************TACAGTCCTGATTG
Mut   CAGTGTAGCTCAAG***Deletion***TACAGTCCTGATTG
AIlele-2:   134bp deletion in exon3
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Genome sequence analysis of PCR products from parental (WT) and LDHB knockout (KO) 293T cells, using sanger sequencing.