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HADHA Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02391

Basic Information

Catalog No.
RM02391

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Background

This gene encodes the alpha subunit of the mitochondrial trifunctional protein, which catalyzes the last three steps of mitochondrial beta-oxidation of long chain fatty acids. The mitochondrial membrane-bound heterocomplex is composed of four alpha and four beta subunits, with the alpha subunit catalyzing the 3-hydroxyacyl-CoA dehydrogenase and enoyl-CoA hydratase activities. Mutations in this gene result in trifunctional protein deficiency or LCHAD deficiency. The genes of the alpha and beta subunits of the mitochondrial trifunctional protein are located adjacent to each other in the human genome in a head-to-head orientation. [provided by RefSeq, Jul 2008]

Gene Information

Gene Symbol
HADHA

Species
Human

Gene ID
3030

Swiss Prot
P40939

Synonyms
ECHA; GBP; HADH; LCEH; LCHAD; MTPA; TP-ALPHA

Product Information

Description
HADHA Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.
Allele-1:exon1 was deleted
Allele-2:exon1 was deleted
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
Store at -20℃

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

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

Sequencing data

WT AGTCCTCCGCTCGG**********TGAGGCCTGGCCGA
Mut AGTCCTCCGCTCGG***Deletion***TGAGGCCTGGCCGA
Allele-1: exon1 was deleted

WT AGTCCTCCGCTCGG**********TGAGGCCTGGCCGA
Mut AGTCCTCCGCTCGG***Deletion***TGAGGCCTGGCCGA
Allele-2: exon1 was deleted

Genome sequence analysis of PCR products from parental (WT) and HADHA knockout (KO) 293T cells, using sanger sequencing.