

FIS1 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02298

Basic Information

Catalog No.

RM02298

Category

Cell Lysate

Parental Cell line

HeLa

Genotype

Knockout

Gene Information

Gene Symbol

FIS1

Species

Human

Gene ID

51024

Swiss Prot

Q9Y3D6

Synonyms

CGI-135; TTC11

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Background

The balance between fission and fusion regulates the morphology of mitochondria. TTC11 is a component of a mitochondrial complex that promotes mitochondrial fission (James et al., 2003 [PubMed 12783892]).[supplied by OMIM, Mar 2008]

Product Information

Description

FIS1 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology. Allele-1:31bp deletion and 12bp deletion in exon2

Allele-2:58bp deletion in exon2

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

WT CAGGCTCGGTGTCC*****TGGTCGGAGCAAG***ACAATGATGACATC*****GTGCTGCTCGAG
Mut CAGGCTCGGTGTCC***Deletion***TGGTCGGAGCAAG***ACAATGATGACATC***Deletion***GTGCTGCTCGAG
Allele-1: 31bp deletion and 12bp deletion in exon2
WT CTCGGTGTCCAAGA*****TAAAGGCATCGTGC
Mut CTCGGTGTCCAAGA***Deletion***TAAAGGCATCGTGC
Allele-2: 58bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and FIS1 Knockout (KO) HeLa cells, using sanger sequencing.