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FXN Knockdown 293T Cell Lysate, Heterozygous

Catalog No.: RM01777

Basic Information

Catalog No.
RM01777

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockdown

Background

This nuclear gene encodes a mitochondrial protein which belongs to the FRATAXIN family. The protein functions in regulating mitochondrial iron transport and respiration. The expansion of intronic trinucleotide repeat GAA from 8-33 repeats to >90 repeats results in Friedreich ataxia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2016]

Gene Information

Species
Human

Gene ID
2395

Swiss Prot
Q16595

Synonyms
CyaY; FA; FARR; FRDA; X25

Contact

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Product Information

Description
FXN 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℃

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.

Sequencing data

WT TTGGCTTTCAG**********GTAAGATAAAA
Mut TTGGCTTTCAG***Deletion***GTAAGATAAAA
Allele-1: exon2 was deleted

WT TTGGCTTTCAG**********GTAAGATAAAA
Mut TTGGCTTTCAG**********GTAAGATAAAA
Allele-2: WT

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