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NDUFA5 Knockout 293F Cell Lysate, Homozygous

Catalog No.: RM02394

Basic Information

Catalog No.
RM02394

Category
Cell Lysate

Parental Cell line
293F

Genotype
Knockout

Gene Information

Gene Symbol
NDUFA5

Species
Human

Gene ID
4698

Swiss Prot
Q16718

Synonyms
B13; CI-13KD-B; CI-13kB; NUFM; UQOR13

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

Background

This nuclear gene encodes a conserved protein that comprises the B13 subunit of complex I of the mitochondrial respiratory chain. The encoded protein localizes to the inner mitochondrial membrane, where it is thought to aid in the transfer of electrons from NADH to ubiquinone. Alternative splicing results in multiple transcript variants. There are numerous pseudogenes of this gene on chromosomes 1, 3, 6, 8, 9, 11, 12, and 16. [provided by RefSeq, Apr 2014]

Product Information

Description
NDUFA5 Knockout 293F Cell Line is engineered from 293F 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.

Sequencing data



Genome sequence analysis of PCR products from parental (WT) and NDUFA5 knockout (KO) 293F cells, using sanger sequencing.

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