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SLC25A4 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02293

Basic Information

Catalog No.
RM02293

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Gene Information

Gene Symbol
SLC25A4

Species
Human

Gene ID
291

Swiss Prot
P12235

Synonyms
AAC1; ANT; ANT 1; ANT1; MTDPS12; MTDPS12A; PEO2; PEO3; PEOA2; T1

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Background

This gene is a member of the mitochondrial carrier subfamily of solute carrier protein genes. The product of this gene functions as a gated pore that translocates ADP from the cytoplasm into the mitochondrial matrix and ATP from the mitochondrial matrix into the cytoplasm. The protein forms a homodimer embedded in the inner mitochondria membrane. Mutations in this gene have been shown to result in autosomal dominant progressive external opthalmoplegia and familial hypertrophic cardiomyopathy. [provided by RefSeq, Jun 2013]

Product Information

Description
SLC25A4 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.
Allele-1:124bp deletion in exon2
Allele-2:124bp 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℃

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

WT TAACCTGGCCAACG**********CGGTGGGGCCGCTG
Mut TAACCTGGCCAACG***Deletion***CGGTGGGGCCGCTG
Allele-1: 124bp deletion in exon2

WT TAACCTGGCCAACG**********CGGTGGGGCCGCTG
Mut TAACCTGGCCAACG***Deletion***CGGTGGGGCCGCTG
Allele-2: 124bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and SLC25A4 knockout (KO) 293T cells, using sanger sequencing.

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