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CPS1 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM50031

Basic Information

Catalog No.
RM50031

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockout

Background

The mitochondrial enzyme encoded by this gene catalyzes synthesis of carbamoyl phosphate from ammonia and bicarbonate. This reaction is the first committed step of the urea cycle, which is important in the removal of excess urea from cells. The encoded protein may also represent a core mitochondrial nucleoid protein. Three transcript variants encoding different isoforms have been found for this gene. The shortest isoform may not be localized to the mitochondrion. Mutations in this gene have been associated with carbamoyl phosphate synthetase deficiency, susceptibility to persistent pulmonary hypertension, and susceptibility to venoocclusive disease after bone marrow transplantation.

Gene Information

Gene Symbol
CPS1

Species
Human

Gene ID
1373

Swiss Prot
P31327

Synonyms
PHN; GATD6; CPSASE1; CPS1

Product Information

Description
CPS1 Knockout cell line is engineered from HeLa cell line with Gene-Editing Technology.
Allele-1:116bp deletion in exon14
Allele-2:116bp deletion in exon14
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

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Sequencing data

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WT    TGTTCTGATGAACC**********GGGTTAATTCTGGG
Mut   TGTTCTGATGAACC***Deletion***GGGTTAATTCTGGG
Allele-1:   116bp deletion in exon14

WT    TGTTCTGATGAACC**********GGGTTAATTCTGGG
Mut   TGTTCTGATGAACC***Deletion***GGGTTAATTCTGGG
Allele-2:   116bp deletion in exon14
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Genome sequence analysis of PCR products from parental (WT) and CPS1 knockout (KO) HeLa cells, using sanger sequencing.

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