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PCCB Knockout 293T Cell Line, Homozygous

Catalog No.: RM02659

Basic Information

Catalog No.
RM02659

Category
Cell Line

Parental Cell line
293T

Genotype
Knockout

Gene Information

Gene Symbol
PCCB

Species
Human

Gene ID
5096

Swiss Prot
P05166

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Background

The protein encoded by this gene is a subunit of the propionyl-CoA carboxylase (PCC) enzyme, which is involved in the catabolism of propionyl-CoA. PCC is a mitochondrial enzyme that probably acts as a dodecamer of six alpha subunits and six beta subunits. This gene encodes the beta subunit of PCC. Defects in this gene are a cause of propionic acidemia type II (PA-2). Multiple transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, May 2010]

Product Information

Description
PCCB Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.
Allele-1:139bp deletion in exon1
Allele-2:139bp deletion in exon1
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 line and 1 vial knockout cell line

Shipping Conditions
Dry ice

Amount
1~5x10^6 cells/vial

Storage
Store at -20℃

Protocol
Upon arrival, it should be maintained in DMEM medium with 10%(v/v) fetal bovine serum and 100U penicillin-streptomycin, at 37℃ with 5% CO_2 condition.
1. Thaw the vial in 37℃ water bath ,and shake it to melt as soon as possible.
2. Transfer the cell suspension to a 15mL conical tube with pre-warmed 5mL complete medium and centrifuge 1000rpm for approximately 5 minutes at room temperature.
3. Remove and discard the supernatant.
4. Resuspend the cell pellet with 1mL pre-warmed complete medium and seed in 10cm dish.
5. Add 8-10mL of complete medium.
6. Incubate the culture at 37℃ incubator with 5% CO_2.
7. A subcultivation ratio of 1:2-1:4 is recommended.

Sequencing data

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WT    GGCGGCATTACGGG**********CCGTATTGACGCG
Mut   GGCGGCATTACGGG***Deletion***CCGTATTGACGCG
Allele-1:   139bp deletion in exon1

WT    GGCGGCATTACGGG**********CCGTATTGACGCG
Mut   GGCGGCATTACGGG***Deletion***CCGTATTGACGCG
Allele-2:   139bp deletion in exon1
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Genome sequence analysis of PCR products from parental (WT) and PCCB knockout (KO) 293T cells, using sanger sequencing.

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