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PCCB Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02792

Basic Information

Catalog No.
RM02792

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

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.

Gene Information

Gene Symbol
PCCB

Species
Human

Gene ID
5096

Swiss Prot
P05166

Synonyms
PCCB; CB

Product Information

Description
PCCB Knockout 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 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.

Contact

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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.