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FDPS Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM50019

Basic Information

Catalog No.
RM50019

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Gene Information

Gene Symbol
FDPS

Species
Human

Gene ID
2224

Swiss Prot
P14324

Synonyms
FPS; FPPS; POROK9; FPS/FDPS

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Background

This gene encodes an enzyme that catalyzes the production of geranyl pyrophosphate and farnesyl pyrophosphate from isopentenyl pyrophosphate and dimethylallyl pyrophosphate. The resulting product, farnesyl pyrophosphate, is a key intermediate in cholesterol and sterol biosynthesis, a substrate for protein farnesylation and geranylgeranylation, and a ligand or agonist for certain hormone receptors and growth receptors. Drugs that inhibit this enzyme prevent the post-translational modifications of small GTPases and have been used to treat diseases related to bone resorption. Multiple pseudogenes have been found on chromosomes 1, 7, 14, 15, 21 and X. Multiple transcript variants encoding different isoforms have been found for this gene.

Product Information

Description
FDPS Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:82bp deletion in exon1
Allele-2:82bp 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.

Sequencing data

```
WT    CCGCTGGTTGAGAT**********GCACGGGTACCCA
Mut   CCGCTGGTTGAGAT***Deletion***GCACGGGTACCCA
Allele-1:   82bp deletion in exon1

WT    CCGCTGGTTGAGAT**********GCACGGGTACCCA
Mut   CCGCTGGTTGAGAT***Deletion***GCACGGGTACCCA
Allele-2:   82bp deletion in exon1
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Genome sequence analysis of PCR products from parental (WT) and FDPS knockout (KO) 293T cells, using sanger sequencing.