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PPP2CA Knockout 293T Cell Line, Homozygous

Catalog No.: RM02134

Basic Information

Catalog No.
RM02134

Category
Cell Line

Parental Cell line
293T

Genotype
Knockout

Background

This gene encodes the phosphatase 2A catalytic subunit. Protein phosphatase 2A is one of the four major Ser/Thr phosphatases, and it is implicated in the negative control of cell growth and division. It consists of a common heteromeric core enzyme, which is composed of a catalytic subunit and a constant regulatory subunit, that associates with a variety of regulatory subunits. This gene encodes an alpha isoform of the catalytic subunit. [provided by RefSeq, Jul 2008]

Gene Information

Gene Symbol
PPP2CA

Species
Human

Gene ID
5515

Swiss Prot
P67775

Synonyms
PP2Ac; PP2CA; PP2Calpha; RP-C

Product Information

Description
PPP2CA Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:130bp deletion in exon2
Allele-2:130bp 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 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.

Contact

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Sequencing data

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WT     AAAAGAATCCAACG**************CAGAGGATATTATT
Mut    AAAAGAATCCAACG***Deletion***CAGAGGATATTATT
Allele-1：130bp deletion in exon2
WT     AAAAGAATCCAACG**************CAGAGGATATTATT
Mut    AAAAGAATCCAACG***Deletion***CAGAGGATATTATT
Allele-2：130bp deletion in exon2
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Genome sequence analysis of PCR products from parental (WT) and PPP2CA knockout (KO) 293T cells, using sanger sequencing.

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