

PIK3R3 Knockout 293T Cell Line, Homozygous

Catalog No.: RM01957

Basic Information

Catalog No.

RM01957

Category

Cell Line

Parental Cell line

293T

Genotype

Knockout

Gene Information

Gene Symbol

PIK3R3

Species

Human

Gene ID

8503

Swiss Prot

Q92569

Synonyms

p55; p55-GAMMA; p55PIK

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Background

Phosphatidylinositol 3-kinase (PI3K) phosphorylates phosphatidylinositol and similar compounds, which then serve as second messengers in growth signaling pathways. PI3K is composed of a catalytic and a regulatory subunit. The protein encoded by this gene represents a regulatory subunit of PI3K. The encoded protein contains two SH2 domains through which it binds activated protein tyrosine kinases to regulate their activity. [provided by RefSeq, Jun 2016]

Product Information

Description

PIK3R3 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing Technology.

Allele-1:32bp deletion in exon2

Allele-2:20bp 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

1~5x10⁶ cells/vial

Storage

Stored in liquid nitrogen for a long time less than -130°C. Minimizing freeze-thaw cycles.

Protocol

Upon arrival, it should be maintained in DMEM medium with 10%(v/v) fetal bovine serum and 100U penicillin-streptomycin, at 37°C with 5% CO₂ condition.

1. Thaw the vial in 37°C 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°C incubator with 5% CO₂.
7. A subcultivation ratio of 1:2-1:4 is recommended.

Sequencing data

WT ACCT*****CAAA*ATGG*****ATAT
Mut ACCT***Deletion***CAAA*ATGG***Deletion***ATAT
Allele-1: 32bp deletion in exon2

WT ACCT*****GCAG*GCAG*****TACT
Mut ACCT***Deletion***GCAG*GCAG***Deletion***TACT
Allele-2: 20bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and PIK3R3 knockout (KO) 293T cells, using sanger sequencing.