

FOXO3 Knockout 293T Cell Line, Homozygous

Catalog No.: RM02155

Basic Information

Catalog No.

RM02155

Category

Cell Line

Parental Cell line

293T

Genotype

Knockout

Gene Information

Gene Symbol

FOXO3

Species

Human

Gene ID

2309

Swiss Prot

O43524

Synonyms

AF6q21; FKHL1; FKHL1P2; FOXO2;
FOXO3A

Contact

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Background

This gene belongs to the forkhead family of transcription factors which are characterized by a distinct forkhead domain. This gene likely functions as a trigger for apoptosis through expression of genes necessary for cell death. Translocation of this gene with the MLL gene is associated with secondary acute leukemia. Alternatively spliced transcript variants encoding the same protein have been observed. [provided by RefSeq, Jul 2008]

Product Information

Description

FOXO3 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing Technology.

Allele-1:1bp deletion in exon1

Allele-2:32bp 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

1~5x10⁶ 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 CCTTGAGGACTCGGCCCGGGTGCTGGCAC
Mut CCTTGAGGACTCGG -CCGGGTGCTGGCAC
Allele-1: 1bp deletion in exon1
WT GCGGGGAGCGGCAC*****CCCGGGTGCTGGCA
Mut GCGGGGAGCGGCAC***Deletion***CCCGGGTGCTGGCA
Allele-2: 32bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and FOXO3 knockout (KO) 293T cells, using sanger sequencing.