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TET1 Knockdown 293T Cell Line, Heterozygous

Catalog No.: RM50118

Basic Information

Catalog No.
RM50118

Category
Cell Line

Parental Cell line
293T

Genotype
Knockdown

Background

DNA methylation is an epigenetic mechanism that is important for controlling gene expression. The protein encoded by this gene is a demethylase that belongs to the TET (ten-eleven translocation) family. Members of the TET protein family play a role in the DNA methylation process and gene activation.

Gene Information

Gene Symbol
TET1

Species
Human

Gene ID
80312

Swiss Prot
Q8NFU7

Synonyms
LCX; CXXC6; bA119F7.1; TET1

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Product Information

Description
TET1 Knockdown cell line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:155bp deletion in exon1
Allele-2:168bp 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
1~5x10^6 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.

Sequencing data

WT TAAACCACCCGTGC**********GTCGTAGCCAAATC
Mut TAAACCACCCGTGC***Deletion***GTCGTAGCCAAATC
Allele-1: 155bp deletion in exon1

WT AACCTAAACCACCC**********AAATCCAAAAAGGT
Mut AACCTAAACCACCC***Deletion***AAATCCAAAAAGGT
Allele-2: 168bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and TET1 knockdown (KD) 293T cells, using sanger sequencing.

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