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CREB1 Knockout 293T Cell Line, Homozygous

Catalog No.: RM01898

Basic Information

Catalog No.
RM01898

Category
Cell Line

Parental Cell line
293T

Genotype
Knockout

Gene Information

Gene Symbol
CREB1

Species
Human

Gene ID
1385

Swiss Prot
P16220

Synonyms
CREB; CREB-1

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Background

This gene encodes a transcription factor that is a member of the leucine zipper family of DNA binding proteins. This protein binds as a homodimer to the cAMP-responsive element, an octameric palindrome. The protein is phosphorylated by several protein kinases, and induces transcription of genes in response to hormonal stimulation of the cAMP pathway. Alternate splicing of this gene results in several transcript variants encoding different isoforms. [provided by RefSeq, Mar 2016]

Product Information

Description
CREB1 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:46bp deletion in exon2
Allele-2:46bp 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
Stored in liquid nitrogen for a long time less than -130℃. 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℃ 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 ATCTGCTCCCACCG**********AGTCATTCAGGCGG
Mut ATCTGCTCCCACCG***Deletion***AGTCATTCAGGCGG
Allele-1: 46bp deletion in exon2

WT ATCTGCTCCCACCG**********AGTCATTCAGGCGG
Mut ATCTGCTCCCACCG***Deletion***AGTCATTCAGGCGG
Allele-2: 46bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and CREB1 knockout (KO) 293T cells, using sanger sequencing.