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GADD45A Knockout 293T Cell Line, Homozygous

Catalog No.: RM02152

Basic Information

Catalog No.
RM02152

Category
Cell Line

Parental Cell line
293T

Genotype
Knockout

Gene Information

Gene Symbol
GADD45A

Species
Human

Gene ID
1647

Swiss Prot
P24522

Synonyms
DDIT1; GADD45

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Background

This gene is a member of a group of genes whose transcript levels are increased following stressful growth arrest conditions and treatment with DNA-damaging agents. The protein encoded by this gene responds to environmental stresses by mediating activation of the p38/JNK pathway via MTK1/MEKK4 kinase. The DNA damage-induced transcription of this gene is mediated by both p53-dependent and -independent mechanisms. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene.[provided by RefSeq, Dec 2010]

Product Information

Description
GADD45A Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:exon1 was deleted
Allele-2:exon1 was deleted
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

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WT    GTGAGTGCAGAAAG**************GATAGCAGAATCAA
Mut   GTGAGTGCAGAAAG***Deletion***GATAGCAGAATCAA
Allele-1: exon1 was deleted

WT    GTGAGTGCAGAAAG**************GACTCTTCCGGCCC
Mut   GTGAGTGCAGAAAG***Deletion***GACTCTTCCGGCCC
Allele-2: exon1 was deleted
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Genome sequence analysis of PCR products from parental (WT) and GADD45A knockout (KO) 293T cells, using sanger sequencing.