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GADD45A Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02315

Basic Information

Catalog No.
RM02315

Category
Cell Lysate

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 Lysate and 1 vial knockout cell Lysate

Shipping Conditions
4℃

Amount
50μL, 2μg/μL.

Storage
Store at -20℃

Protocol
To be used as WB control. Lysate is supplied in 1× SDS sample buffer (2% SDS, 60 mM Tris-HCl pH 6.8, 10% Glycerol, 0.02% Bromophenol blue, 60 mM beta-mercaptoethanol). Lysate should be boiled for 3 - 5 minutes before loading onto gel.

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.

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