

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°C

Amount

50μL, 2μg/μL.

Storage

Lysate is stable for 12 months when stored at -20°C. Minimizing freeze-thaw cycles.

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

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

WT GTGAGTGCAGAAAG*****GACTCTTCGGGCC
Mut GTGAGTGCAGAAAG***Deletion***GACTCTTCGGGCC
Allele-2: exon1 was deleted

Genome sequence analysis of PCR products from parental (WT) and GADD45A Knockout (KO) 293T cells, using sanger sequencing.