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ATF3 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM01995

Basic Information

Catalog No.
RM01995

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Background

This gene encodes a member of the mammalian activation transcription factor/cAMP responsive element-binding (CREB) protein family of transcription factors. This gene is induced by a variety of signals, including many of those encountered by cancer cells, and is involved in the complex process of cellular stress response. Multiple transcript variants encoding different isoforms have been found for this gene. It is possible that alternative splicing of this gene may be physiologically important in the regulation of target genes. [provided by RefSeq, Apr 2011]

Gene Information

Gene Symbol
ATF3

Species
Human

Gene ID
467

Swiss Prot
P18847

Contact

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Product Information

Description
ATF3 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.
Allele-1:61bp deletion in exon2
Allele-2:61bp 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 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

```
WT    CCCCTGAAGAAGAT**************AGAAGGAGAAGACG
Mut   CCCCTGAAGAAGAT***Deletion***AGAAGGAGAAGACG
Allele-1: 61bp deletion in exon2

WT    CCCCTGAAGAAGAT**************AGAAGGAGAAGACG
Mut   CCCCTGAAGAAGAT***Deletion***AGAAGGAGAAGACG
Allele-2: 61bp deletion in exon2
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Genome sequence analysis of PCR products from parental (WT) and ATF3 knockout (KO) 293T cells, using sanger sequencing.

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