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ATF4 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM50151

Basic Information

Catalog No.
RM50151

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockout

Gene Information

Gene Symbol
ATF4

Species
Human

Gene ID
468

Swiss Prot
P18848

Synonyms
CREB2; TXREB; CREB-2; TAXREB67; ATF4

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Background

This gene encodes a transcription factor that was originally identified as a widely expressed mammalian DNA binding protein that could bind a tax-responsive enhancer element in the LTR of HTLV-1. The encoded protein was also isolated and characterized as the cAMP-response element binding protein 2 (CREB-2). The protein encoded by this gene belongs to a family of DNA-binding proteins that includes the AP-1 family of transcription factors, cAMP-response element binding proteins (CREBs) and CREB-like proteins. These transcription factors share a leucine zipper region that is involved in protein-protein interactions, located C-terminal to a stretch of basic amino acids that functions as a DNA binding domain. Two alternative transcripts encoding the same protein have been described. Two pseudogenes are located on the X chromosome at q28 in a region containing a large inverted duplication.

Product Information

Description
ATF4 Knockout cell line is engineered from HeLa cell line with Gene-Editing Technology.
Allele-1:71bp deletion in exon1
Allele-2:71bp deletion in exon1
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     TCTCTTAGATGATT**********TGGCTGGCTGTGGA
Mut    TCTCTTAGATGATT***Deletion***TGGCTGGCTGTGGA
Allele-1:   71bp deletion in exon1

WT     TCTCTTAGATGATT**********TGGCTGGCTGTGGA
Mut    TCTCTTAGATGATT***Deletion***TGGCTGGCTGTGGA
Allele-2:   71bp deletion in exon1
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Genome sequence analysis of PCR products from parental (WT) and ATF4 knockout (KO) HeLa cells, using sanger sequencing.

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