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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

## 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.

## Gene Information

**Gene Symbol**
ATF4

**Species**
Human

**Gene ID**
468

**Swiss Prot**
P18848

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

## 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**
Lysate is stable for 12 months when stored at -20℃. 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.

## Contact


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## 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
```

Genome sequence analysis of PCR products from parental (WT) and ATF4 knockout (KO) HeLa cells, using sanger sequencing.