

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

Contact

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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°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 TCTCTTAGATGATT*****TGGCTGGCTGTGGA
Mut TCTCTTAGATGATT***Deletion***TGGCTGGCTGTGGA
Allele-1: 71bp deletion in exon1

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

WT TCTCTTAGATGATT*****TGGCTGGCTGTGGA
Mut TCTCTTAGATGATT***Deletion***TGGCTGGCTGTGGA
Allele-2: 71bp deletion in exon1