

# CREB1 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02025

## Basic Information

**Catalog No.**

RM02025

**Category**

Cell Lysate

**Parental Cell line**

293T

**Genotype**

Knockout

## Gene Information

**Gene Symbol**

CREB1

**Species**

Human

**Gene ID**

1385

**Swiss Prot**

P16220

**Synonyms**

CREB; CREB-1

## Contact

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## Background

This gene encodes a transcription factor that is a member of the leucine zipper family of DNA binding proteins. This protein binds as a homodimer to the cAMP-responsive element, an octameric palindrome. The protein is phosphorylated by several protein kinases, and induces transcription of genes in response to hormonal stimulation of the cAMP pathway. Alternate splicing of this gene results in several transcript variants encoding different isoforms. [provided by RefSeq, Mar 2016]

## Product Information

**Description**

CREB1 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.

Allele-1:46bp deletion in exon2

Allele-2:46bp 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°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

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WT ATCTGCTCCACCG\*\*\*\*\*AGTCATTCAGGCGG  
Mut ATCTGCTCCACCG\*\*\*Deletion\*\*\*AGTCATTCAGGCGG  
Allele-1: 46bp deletion in exon2  
WT ATCTGCTCCACCG\*\*\*\*\*AGTCATTCAGGCGG  
Mut ATCTGCTCCACCG\*\*\*Deletion\*\*\*AGTCATTCAGGCGG  
Allele-2: 46bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and CREB1 knockout (KO) 293T cells, using sanger sequencing.