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CREB1 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02025

Basic Information

Catalog No.
RM02025

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

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]

Gene Information

Gene Symbol
CREB1

Species
Human

Gene ID
1385

Swiss Prot
P16220

Synonyms
CREB; CREB-1

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℃

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.

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Sequencing data

WT ATCTGCTCCCACCG**********AGTCATTCAGGCGG
Mut ATCTGCTCCCACCG***Deletion***AGTCATTCAGGCGG
Allele-1: 46bp deletion in exon2

WT ATCTGCTCCCACCG**********AGTCATTCAGGCGG
Mut ATCTGCTCCCACCG***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.