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# CASP3 Knockout 293T Cell Lysate, Homozygous

**Catalog No.: RM01771**

## Basic Information

**Catalog No.**
RM01771

**Category**
Cell Lysate

**Parental Cell line**
293T

**Genotype**
Knockout

## Background

This gene encodes a protein which is a member of the cysteine-aspartic acid protease (caspase) family. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce two subunits, large and small, that dimerize to form the active enzyme. This protein cleaves and activates caspases 6, 7 and 9, and the protein itself is processed by caspases 8, 9 and 10. It is the predominant caspase involved in the cleavage of amyloid-beta 4A precursor protein, which is associated with neuronal death in Alzheimer's disease. Alternative splicing of this gene results in two transcript variants that encode the same protein. [provided by RefSeq, Jul 2008]

## Gene Information

**Gene Symbol**
CASP3

**Species**
Human

**Gene ID**
836

**Swiss Prot**
P42574

**Synonyms**
CPP32; CPP32B; SCA-1

## Product Information

**Description**
CASP3 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.

## Contact


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## Sequencing data

```
WT     AGCGAATCAATGGA**************ATGGGTTTATGTAT
Mut    AGCGAATCAATGGA***Deletion***ATGGGTTTATGTAT
Allele-1：46bp deletion in exon2
WT     AGCGAATCAATGGA**************ATGGGTTTATGTAT
Mut    AGCGAATCAATGGA***Deletion***ATGGGTTTATGTAT
Allele-2：46bp deletion in exon2
```

Genome sequence analysis of PCR products from parental (WT) and CASP3 knockout (KO) 293T cells, using sanger sequencing.