

# APP Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM50136

## Basic Information

### Catalog No.

RM50136

### Category

Cell Lysate

### Parental Cell line

293T

### Genotype

Knockout

## Gene Information

### Gene Symbol

APP

### Species

Human

### Gene ID

351

### Swiss Prot

P05067

### Synonyms

AAA; AD1; PN2; ABPP; APPI; CVAP;  
ABETA; PN-II; preA4; CTFgamma; alpha-  
sAPP; PP

## Contact

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## Background

This gene encodes a cell surface receptor and transmembrane precursor protein that is cleaved by secretases to form a number of peptides. Some of these peptides are secreted and can bind to the acetyltransferase complex APBB1/TIP60 to promote transcriptional activation, while others form the protein basis of the amyloid plaques found in the brains of patients with Alzheimer disease. In addition, two of the peptides are antimicrobial peptides, having been shown to have bacteriocidal and antifungal activities. Mutations in this gene have been implicated in autosomal dominant Alzheimer disease and cerebroarterial amyloidosis (cerebral amyloid angiopathy). Multiple transcript variants encoding several different isoforms have been found for this gene.

## Product Information

### Description

APP Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.

Allele-1:exon2 was deleted

Allele-2:94bp 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 CACCTGTACCTTACA\*\*\*\*\*GCCGGCCGTGGGGCT  
Mut CACCTGTACCTTACA\*\*\*Deletion\*\*\*GCCGGCCGTGGGGCT  
Allele-1: exon2 was deleted

WT TACA\*\*\*\*\*CC\*GG\*\*\*\*\*CC\*GC\*\*\*\*\*TGGT  
Mut TACA\*Deletion\*CC\*GG\*Deletion\*CC\*GC\*insertion\*TGGT  
Allele-2: 94bp deletion in exon2

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