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APP Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM01994

Basic Information

Catalog No.
RM01994

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

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. [provided by RefSeq, Aug 2014]

Gene Information

Gene Symbol
APP

Species
Human

Gene ID
351

Swiss Prot
P05067

Synonyms
AAA; ABETA; ABPP; AD1; APPI; CTFgamma; CVAP; PN-II; PN2

Product Information

Description
APP Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.
Allele-1:exon2 was deleted
Allele-2:exon2 was deleted
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 ACCTGTACCTTACA**********CGGCCGGCCGTGGG
Mut ACCTGTACCTTACA***Deletion***CGGCCGGCCGTGGG
Allele-1: exon2 was deleted

WT ACCTGTACCTTACA**********CGGCCGGCCGTGGG
Mut ACCTGTACCTTACA***Deletion***CGGCCGGCCGTGGG
Allele-2: exon2 was deleted

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