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# DNM1L Knockout A549 Cell Lysate, Homozygous

**Catalog No.: RM02257**

## Basic Information

**Catalog No.**
RM02257

**Category**
Cell Lysate

**Parental Cell line**
A549

**Genotype**
Knockout

## Background

This gene encodes a member of the dynamin superfamily of GTPases. The encoded protein mediates mitochondrial and peroxisomal division, and is involved in developmentally regulated apoptosis and programmed necrosis. Dysfunction of this gene is implicated in several neurological disorders, including Alzheimer's disease. Mutations in this gene are associated with the autosomal dominant disorder, encephalopathy, lethal, due to defective mitochondrial and peroxisomal fission (EMPF). Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jun 2013]

## Gene Information

**Gene Symbol**
DNM1L

**Species**
Human

**Gene ID**
10059

**Swiss Prot**
O00429

**Synonyms**
DLP1; DRP1; DVLP; DYMPLE; EMPF; EMPF1; HDYNIV

## Product Information

**Description**
DNM1L Knockout A549 Cell Line is engineered from A549 cell line with Gene-Editing technology.
Allele-1:1bp deletion in exon1
Allele-2:1bp deletion in exon1
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    CCAGCTGCCTCAAA**************CGTCGTAGTGGGAA
Mut   CCAGCTGCCTCAAA***Deletion***CGTCGTAGTGGGAA
Allele-1: 1bp deletion in exon1

WT    CCAGCTGCCTCAAA**************CGTCGTAGTGGGAA
Mut   CCAGCTGCCTCAAA***Deletion***CGTCGTAGTGGGAA
Allele-2: 1bp deletion in exon1
```

Genome sequence analysis of PCR products from parental (WT) and DNM1L knockout (KO) A549 cells, using sanger sequencing.



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