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# PARK7 Knockout HeLa Cell Lysate, Homozygous

**Catalog No.: RM02794**

## Basic Information

**Catalog No.**
RM02794

**Category**
Cell Lysate

**Parental Cell line**
HeLa

**Genotype**
Knockout

## Background

The product of this gene belongs to the peptidase C56 family of proteins. It acts as a positive regulator of androgen receptor-dependent transcription. It may also function as a redox-sensitive chaperone, as a sensor for oxidative stress, and it apparently protects neurons against oxidative stress and cell death. Defects in this gene are the cause of autosomal recessive early-onset Parkinson disease 7. Two transcript variants encoding the same protein have been identified for this gene.

## Gene Information

**Gene Symbol**
PARK7

**Species**
Human

**Gene ID**
11315

**Swiss Prot**
Q99497

**Synonyms**
DJ1; DJ-1; GATD2; HEL-S-67p; K7

## Product Information

**Description**
PARK7 Knockout cell line is engineered from HeLa cell line with Gene-Editing Technology.
Allele-1:exon1 was deleted
Allele-2:exon1 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.

## Contact


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## Sequencing data

```
WT    TATACAAATCAACG**************ATTTTTAGCCATTC
Mut   TATACAAATCAACG***Deletion***ATTTTTAGCCATTC
Allele-1:    exon1 was deleted

WT    ATGAAAACCGTTTC**************TCGATTTTTAGCCA
Mut   ATGAAAACCGTTTC***Deletion***TCGATTTTTAGCCA
Allele-2:    exon1 was deleted
```

Genome sequence analysis of PCR products from parental (WT) and PARK7 knockout (KO) HeLa cells, using sanger sequencing.



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