

PARK7 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02794

Basic Information

Catalog No.

RM02794

Category

Cell Lysate

Parental Cell line

HeLa

Genotype

Knockout

Gene Information

Gene Symbol

PARK7

Species

Human

Gene ID

11315


Swiss Prot

Q99497

Synonyms

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

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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.

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°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

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

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

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