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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

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℃

Amount
50μL, 2μg/μL.

Storage
Lysate is stable for 12 months when stored at -20℃. 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    TATACAAATCAACG*************ATTTTTAGCCATTC
Mut   TATACAAATCAACG***Deletion***ATTTTTAGCCATTC
Allele-1:    exon1 was deleted

WT    ATGAAAACCGTTTC*************TCGATTTTTAGCCA
Mut   ATGAAAACCGTTTC***Deletion***TCGATTTTTAGCCA
Allele-2:    exon1 was deleted
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Genome sequence analysis of PCR products from parental (WT) and PARK7 knockout (KO) HeLa cells, using sanger sequencing.

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