

PARK2 Knockout A549 Cell Line, Homozygous

Catalog No.: RM01969

Basic Information

Catalog No.

RM01969

Category

Cell Line

Parental Cell line

A549

Genotype

Knockout

Gene Information

Gene Symbol

PARK2

Species

Human

Gene ID

5071

Swiss Prot

O60260

Synonyms

AR-JP; LPRS2; PARK2; PDJ

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Background

The precise function of this gene is unknown; however, the encoded protein is a component of a multiprotein E3 ubiquitin ligase complex that mediates the targeting of substrate proteins for proteasomal degradation. Mutations in this gene are known to cause Parkinson disease and autosomal recessive juvenile Parkinson disease. Alternative splicing of this gene produces multiple transcript variants encoding distinct isoforms. Additional splice variants of this gene have been described but currently lack transcript support. [provided by RefSeq, Jul 2008]

Product Information

Description

PARK2 Knockout A549 Cell Line is engineered from A549 cell line with Gene-Editing Technology.

Allele-1:5bp deletion in exon2

Allele-2:89bp deletion in exon2

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 line and 1 vial knockout cell line

Shipping Conditions

Dry ice

Amount

1~5x10⁶ cells/vial

Storage

Stored in liquid nitrogen for a long time less than -130°C. Minimizing freeze-thaw cycles.

Protocol

Upon arrival, it should be maintained in DMEM medium with 10%(v/v) fetal bovine serum and 100U penicillin-streptomycin, at 37°C with 5% CO₂ condition.

1. Thaw the vial in 37°C water bath, and shake it to melt as soon as possible.
2. Transfer the cell suspension to a 15mL conical tube with pre-warmed 5mL complete medium and centrifuge 1000rpm for approximately 5 minutes at room temperature.
3. Remove and discard the supernatant.
4. Resuspend the cell pellet with 1mL pre-warmed complete medium and seed in 10cm dish.
5. Add 8-10mL of complete medium.
6. Incubate the culture at 37°C incubator with 5% CO₂.
7. A subcultivation ratio of 1:2-1:4 is recommended.

Sequencing data

WT ATGGTTTCCAGTG*****CGATTCTGACACCA
Mut ATGGTTTCCAGTG***Deletion***CGATTCTGACACCA
Allele-1: 5bp deletion in exon2

WT ATGGTTTCCAGTG*****CGCAGGGAAGGAGC
Mut ATGGTTTCCAGTG***Deletion***CGCAGGGAAGGAGC
Allele-2: 89bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and PARK2 knockout (KO) A549 cells, using sanger sequencing.