

PARK2 Knockout HCT116 Cell Lysate, Homozygous

Catalog No.: RM01968

Basic Information

Catalog No.

RM01968

Category

Cell Lysate

Parental Cell line

HCT116

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 HCT116 Cell Line is engineered from HCT116 cell line with Gene-Editing technology.

Allele-1:89bp deletion in exon2

Allele-2:2bp 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 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 ATGGTTCCAGTG*****CGCAGGGAAGGAGC
Mut ATGGTTCCAGTG***Deletion***CGCAGGGAAGGAGC
Allele-1: 89bp deletion in exon2

WT CTCCAGCCATGGTTCCAGTGGAGGTCGATTCTGACACC
Mut CTCCAGCCATGGTTCCAG -GAGGTCGATTCTGACACC
Allele-2: 2bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and PARK2 knockout (KO) HCT116 cells, using sanger sequencing.