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PDPK1 Knockout HCT116 Cell Line, Homozygous

Catalog No.: RM01945

Basic Information

Catalog No.
RM01945

Category
Cell Line

Parental Cell line
HCT116

Genotype
Knockout

Gene Information

Gene Symbol
PDPK1

Species
Human

Gene ID
5170

Swiss Prot
O15530

Synonyms
PDK1; PDPK2; PDPK2P; PRO0461

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Background

Product Information

Description
PDPK1 Knockout HCT116 Cell Line is engineered from HCT116 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 line and 1 vial knockout cell line

Shipping Conditions
Dry ice

Amount
1~5x10^6 cells/vial

Storage
Store at -20℃

Protocol
Upon arrival, it should be maintained in DMEM medium with 10%(v/v) fetal bovine serum and 100U penicillin-streptomycin, at 37℃ with 5% CO_2 condition.
1. Thaw the vial in 37℃ 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℃ incubator with 5% CO_2.
7. A subcultivation ratio of 1:2-1:4 is recommended.

Sequencing data

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WT    CTGGGGCTCCGCTT***************GCCGGGTCCGGCGG
Mut   CTGGGGCTCCGCTT***Deletion***GCCGGGTCCGGCGG
Allele-1: exon1 was deleted

WT    CTGGGGCTCCGCTT***************GCCGGGTCCGGCGG
Mut   CTGGGGCTCCGCTT***Deletion***GCCGGGTCCGGCGG
Allele-2: exon1 was deleted
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Genome sequence analysis of PCR products from parental (WT) and PDPK1 knockout (KO) HCT116 cells, using sanger sequencing.