

PIK3CA Knockdown HeLa Cell Line, Heterozygous

Catalog No.: RM01943

Basic Information

Catalog No.

RM01943

Category

Cell Line

Parental Cell line

HeLa

Genotype

Knockdown

Gene Information

Gene Symbol

PIK3CA

Species

Human

Gene ID

5290

Swiss Prot

P42336

SynonymsCLOVE; CWS5; MCAP; MCM; MCMTC;
PI3K; PI3K-alpha; p110-alpha

Contact

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Background

Phosphatidylinositol 3-kinase is composed of an 85 kDa regulatory subunit and a 110 kDa catalytic subunit. The protein encoded by this gene represents the catalytic subunit, which uses ATP to phosphorylate PtdIns, PtdIns4P and PtdIns(4,5)P₂. This gene has been found to be oncogenic and has been implicated in cervical cancers. A pseudogene of this gene has been defined on chromosome 22. [provided by RefSeq, Apr 2016]

Product Information

Description

PIK3CA Knockdown HeLa Cell Line is engineered from HeLa cell line with Gene-Editing Technology.

Allele-1:181bp deletion in exon1

Allele-2:231bp deletion in exon1

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 GACTTTAGAATGCC*****CTTTTAAAAGTAA
Mut GACTTTAGAATGCC***Deletion***CTTTTAAAAGTAA
Allele-1: 181bp deletion in exon1

WT TTAGAATGCCTCCG*****AGAAATTGGTATGA
Mut TTAGAATGCCTCCG***Deletion***AGAAATTGGTATGA
Allele-2: 231bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and PIK3CA Knockdown (KD) HeLa cells, using sanger sequencing.