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AKT1S1 Knockdown HeLa Cell Line, Heterozygous

Catalog No.: RM01918

Basic Information

Catalog No.
RM01918

Category
Cell Line

Parental Cell line
HeLa

Genotype
Knockdown

Background

AKT1S1 is a proline-rich substrate of AKT (MIM 164730) that binds 14-3-3 protein (see YWHAH, MIM 113508) when phosphorylated (Kovacina et al., 2003 [PubMed 12524439]).[supplied by OMIM, Mar 2008]

Gene Information

Gene Symbol
AKT1S1

Species
Human

Gene ID
84335

Swiss Prot
Q96B36

Synonyms
Lobe; PRAS40

Product Information

Description
AKT1S1 Knockdown HeLa Cell Line is engineered from HeLa cell line with Gene-Editing Technology.
Allele-1:47bp deletion in exon2
Allele-2:48bp 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
1~5x10^6 cells/vial

Storage
Stored in liquid nitrogen for a long time less than -130℃. 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℃ 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.

Contact

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Sequencing data

WT CTATGCTGCCCATG**********GCACTGGCCCACAG
Mut CTATGCTGCCCATG***Deletion***GCACTGGCCCACAG
Allele-1: 47bp deletion in exon2

WT CTATGCTGCCCATG**********CACTGGCCCACAGG
Mut CTATGCTGCCCATG***Deletion***CACTGGCCCACAGG
Allele-2: 48bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and AKT1S1 Knockdown (KD) HeLa cells, using sanger sequencing.