

GSK3A Knockout HeLa cell line, Homozygous

Catalog No.: RM50168

Basic Information

Catalog No.

RM50168

Category

Cell Lysate

Parental Cell line

HeLa

Genotype

Knockout

Gene Information

Gene Symbol

GSK3A

Species

Human

Gene ID

2931

Swiss Prot

P49840

Synonyms

GSK3 alpha; GSK3A; 3□

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Background

This gene encodes a multifunctional Ser/Thr protein kinase that is implicated in the control of several regulatory proteins including glycogen synthase, and transcription factors, such as JUN. It also plays a role in the WNT and PI3K signaling pathways, as well as regulates the production of beta-amyloid peptides associated with Alzheimer's disease.

Product Information

Description

GSK3A Knockout cell line is engineered from HeLa cell line with Gene-Editing Technology.

Allele-1:71bp deletion in exon1

Allele-2:73bp 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 CTCGTTTCGCGGAGC*****GGAAAGGCATCTGT
Mut CTCGTTTCGCGGAGC***Deletion***GGAAAGGCATCTGT
Allele-1: 71bp deletion in exon1

WT TAGCTCGTTCGCGG*****CGGAAAGGCATCTG
Mut TAGCTCGTTCGCGG***Deletion***CGGAAAGGCATCTG
Allele-2: 73bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and GSK3A knockout (KO) HeLa cells, using sanger sequencing.