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GSK3B Knockout HeLa Cell Line, Homozygous

Catalog No.: RM01881

Basic Information

Catalog No.
RM01881

Category
Cell Line

Parental Cell line
HeLa

Genotype
Knockout

Gene Information

Gene Symbol
GSK3B

Species
Human

Gene ID
2932

Swiss Prot
P49841

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Background

The protein encoded by this gene is a serine-threonine kinase, belonging to the glycogen synthase kinase subfamily. It is involved in energy metabolism, neuronal cell development, and body pattern formation. Polymorphisms in this gene have been implicated in modifying risk of Parkinson disease, and studies in mice show that overexpression of this gene may be relevant to the pathogenesis of Alzheimer disease. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Sep 2009]

Product Information

Description
GSK3B Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing Technology.
Allele-1:133bp deletion in exon2
Allele-2:134bp 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

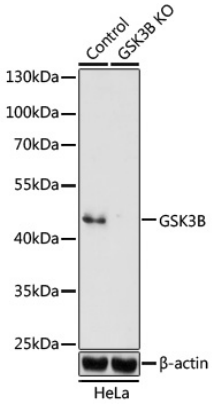
Shipping Conditions
Dry ice

Amount
1~5x10^6 cells/vial

Storage
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.

WB data



Western blot analysis of extracts from parental (Control) and GSK3B Knockout HeLa Cell Line, using GSK3B antibody at 1:1000 dilution.

Sequencing data

WT CAGTGGTGGCAACT**********TGCAGGACAAGAG
Mut CAGTGGTGGCAACT***Deletion***TGCAGGACAAGAG
Allele-1: 133bp deletion in exon2

WT CAGTGGTGGCAACT**********GCAGGACAAGAGA
Mut CAGTGGTGGCAACT***Deletion***GCAGGACAAGAGA
Allele-2: 134bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and GSK3B knockout (KO) HeLa cells, using sanger sequencing.