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GSK3B Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM01797

Basic Information

Catalog No.
RM01797

Category
Cell Lysate

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 Lysate and 1 vial knockout cell Lysate

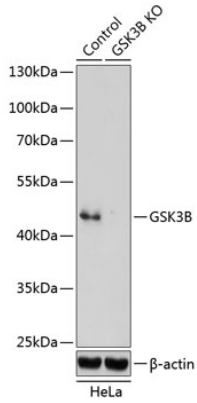
Shipping Conditions
4℃

Amount
50μL, 2μg/μL.

Storage
Store at -20℃

Protocol
To be used as WB control. Lysate is supplied in 1× SDS sample buffer (2% SDS, 60 mM Tris-HCl pH 6.8, 10% Glycerol, 0.02% Bromophenol blue, 60 mM beta-mercaptoethanol). Lysate should be boiled for 3 - 5 minutes before loading onto gel.

WB data



Western blot analysis of extracts from parental (Control) and GSK3B knockout (KO) HeLa cells, using GSK3B antibody (A3174) 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.