

# GSK3A Knockout HeLa cell lysate, Homozygous

Catalog No.: RM50176

## Basic Information

**Catalog No.**

RM50176

**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 $\alpha$ 

## Contact

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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 Lysate and 1 vial knockout cell Lysate

**Shipping Conditions**

4°C

**Amount**50 $\mu$ L, 2 $\mu$ g/ $\mu$ L.**Storage**

Lysate is stable for 12 months when stored at -20°C. Minimizing freeze-thaw cycles.

**Protocol**

To be used as WB control. Lysate is supplied in 1 $\times$  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.

## Sequencing data

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WT CTCGTTTCGGGAGC\*\*\*\*\*GGAAAGGCATCTGT  
Mut CTCGTTTCGGGAGC\*\*\*Deletion\*\*\*GGAAAGGCATCTGT  
Allele-1: 71bp deletion in exon1

WT TAGCTCGTTTCGGG\*\*\*\*\*CGGAAAGGCATCTG  
Mut TAGCTCGTTTCGGG\*\*\*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.