

# STK4 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02041

## Basic Information

**Catalog No.**

RM02041

**Category**

Cell Lysate

**Parental Cell line**

HeLa

**Genotype**

Knockout

## Gene Information

**Gene Symbol**

STK4

**Species**

Human

**Gene ID**

6789

**Swiss Prot**

Q13043

**Synonyms**

KRS2; MST1; YSK3

## Contact

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## Background

The protein encoded by this gene is a cytoplasmic kinase that is structurally similar to the yeast Ste20p kinase, which acts upstream of the stress-induced mitogen-activated protein kinase cascade. The encoded protein can phosphorylate myelin basic protein and undergoes autophosphorylation. A caspase-cleaved fragment of the encoded protein has been shown to be capable of phosphorylating histone H2B. The particular phosphorylation catalyzed by this protein has been correlated with apoptosis, and it's possible that this protein induces the chromatin condensation observed in this process. [provided by RefSeq, Jul 2008]

## Product Information

**Description**

STK4 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.

Allele-1:46bp deletion in exon3

Allele-2:1bp insertion in exon3

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**

50µL, 2µg/µL.

**Storage**

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

**Protocol**

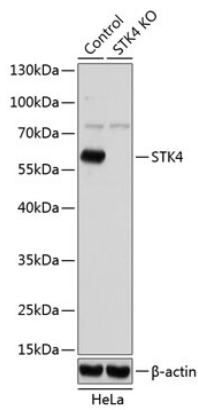
To be used as WB control. Lysate is supplied in 1× SDS sample buffer (2% SDS, 60 mM Tris-HCl pH 6.8, 10% Glycerol, 0.02% Bromophenol blue, 60 mM beta-mercaptoethanol). Lysate should be boiled for 3 - 5 minutes before loading onto gel.

## Sequencing data

WT TAAAGAGACCGGCC\*\*\*\*\*GATAATCAAAGAAA  
Mut TAAAGAGACCGGCC\*\*\*Deletion\*\*\*GATAATCAAAGAAA  
Allele-1: 46bp deletion in exon3  
WT TTCATAAAGAGACCGGCC -AGATTGTGCTATTAAGCAA  
Mut TTCATAAAGAGACCGGCCAAGATTGTGCTATTAAGCAA  
Allele-2: 1bp insertion in exon3

Genome sequence analysis of PCR products from parental (WT) and STK4 knockout (KO) HeLa cells, using sanger sequencing.

## WB data



Western blot analysis of extracts from parental (Control) and STK4 knockout (KO) HeLa cells, using STK4 antibody (A18100) at 1:1000 dilution.