

# STK4 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02551

## Basic Information

**Catalog No.**

RM02551

**Category**

Cell Lysate

**Parental Cell line**

293T

**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 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.

Allele-1:46bp deletion in exon3; Allele-2:1bp deletion 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

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WT TAAAGAGACCGGC\*\*\*\*\*GATAATCAAAGAAA  
Mut TAAAGAGACCGGC\*\*\*Deletion\*\*\*GATAATCAAAGAAA  
Allele-1: 46bp deletion in exon3

WT GACCGCCA\*\*\*\*\*ATAATCAAAGAAA  
Mut GACCGCCA\*Deletion and Insertion\*ATAATCAAAGAAA  
Allele-2: 1bp deletion in exon3

Genome sequence analysis of PCR products from parental (WT) and STK4 knockout (KO) 293T cells, using sanger sequencing.