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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

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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℃

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.

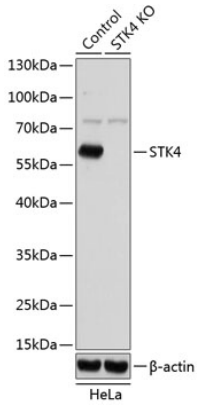
Sequencing data

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

WT TTCATAAAGAGACCGGCC -AGATTGTTGCTATTAAGCAA
Mut TTCATAAAGAGACCGGCCAAGATTGTTGCTATTAAGCAA
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.