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STK11 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02323

Basic Information

Catalog No.
RM02323

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Background

This gene, which encodes a member of the serine/threonine kinase family, regulates cell polarity and functions as a tumor suppressor. Mutations in this gene have been associated with Peutz-Jeghers syndrome, an autosomal dominant disorder characterized by the growth of polyps in the gastrointestinal tract, pigmented macules on the skin and mouth, and other neoplasms. Alternate transcriptional splice variants of this gene have been observed but have not been thoroughly characterized. [provided by RefSeq, Jul 2008]

Gene Information

Gene Symbol
STK11

Species
Human

Gene ID
6794

Swiss Prot
Q15831

Synonyms
LKB1; PJS; hLKB1

Product Information

Description
STK11 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.
Allele-1:65bp deletion in exon1
Allele-2:64bp 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℃

Amount
50μL, 2μg/μL.

Storage
Lysate is stable for 12 months when stored at -20℃. 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.

Contact

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Sequencing data

WT ACGTTCATCCACCG**********TGATGGGGGACCTG
Mut ACGTTCATCCACCG***Deletion***TGATGGGGGACCTG
Allele-1: 65bp deletion in exon1

WT GTTCATCCACCGCA**********GATGGGGGACCTGC
Mut GTTCATCCACCGCA***Deletion***GATGGGGGACCTGC
Allele-2: 64bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and STK11 Knockout (KO) 293T cells, using sanger sequencing.