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RPS6KB1 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02322

Basic Information

Catalog No.
RM02322

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Background

This gene encodes a member of the ribosomal S6 kinase family of serine/threonine kinases. The encoded protein responds to mTOR (mammalian target of rapamycin) signaling to promote protein synthesis, cell growth, and cell proliferation. Activity of this gene has been associated with human cancer. Alternatively spliced transcript variants have been observed. The use of alternative translation start sites results in isoforms with longer or shorter N-termini which may differ in their subcellular localizations. There are two pseudogenes for this gene on chromosome 17. [provided by RefSeq, Jan 2013]

Gene Information

Gene Symbol
RPS6KB1

Species
Human

Gene ID
6198

Swiss Prot
P23443

Synonyms
PS6K; S6K; S6K-beta-1; S6K1; STK14A; p70 S6KA; p70(S6K)-alpha; p70-S6K; p70-alpha

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Product Information

Description
RPS6KB1 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.
Allele-1:exon1 was deleted
Allele-2:exon1 was deleted
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.

Sequencing data

```
WT     ATATTTGCCTGTTG**************ACCTGTTCTTAAAT
Mut    ATATTTGCCTGTTG***Deletion***ACCTGTTCTTAAAT
Allele-1: exon1 was deleted

WT     TGTTTTGTTCATTA**************TGTAGTCATATTTA
Mut    TGTTTTGTTCATTA***Deletion***TGTAGTCATATTTA
Allele-2: exon1 was deleted
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Genome sequence analysis of PCR products from parental (WT) and RPS6KB1 Knockout (KO) 293T cells, using sanger sequencing.

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