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P53 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM01792

Basic Information

Catalog No.
RM01792

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Background

This gene encodes a tumor suppressor protein containing transcriptional activation, DNA binding, and oligomerization domains. The encoded protein responds to diverse cellular stresses to regulate expression of target genes, thereby inducing cell cycle arrest, apoptosis, senescence, DNA repair, or changes in metabolism. Mutations in this gene are associated with a variety of human cancers, including hereditary cancers such as Li-Fraumeni syndrome. Alternative splicing of this gene and the use of alternate promoters result in multiple transcript variants and isoforms. Additional isoforms have also been shown to result from the use of alternate translation initiation codons from identical transcript variants (PMIDs: 12032546, 20937277). [provided by RefSeq, Dec 2016]

Gene Information

Gene Symbol
P53

Species
Human

Gene ID
7157

Swiss Prot
P04637

Synonyms
BCC7; LFS1; P53; TRP53

Product Information

Description
P53 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.
Allele-1:8bp deletion in exon1 and 26bp deletion in exon2
Allele-2:8bp deletion in exon1 and 26bp deletion in exon2
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.

Contact

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Sequencing data

```
WT    CAGA**********GTGA**TTAG**********CGAG
Mut   CAGA***Deletion***GTGA**TTAG***Deletion***CGAG
Allele-1:   8bp deletion in exon1 and 26bp deletion in exon2

WT    CAGA**********GTGA**TTAG**********CGAG
Mut   CAGA***Deletion***GTGA**TTAG***Deletion***CGAG
Allele-2:   8bp deletion in exon1 and 26bp deletion in exon2
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Genome sequence analysis of PCR products from parental (WT) and TP53 knockout (KO) 293T cells, using sanger sequencing.