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TP53 Knockdown HCT116 Cell Lysate, Heterozygous

Catalog No.: RM01972

Basic Information

Catalog No.
RM01972

Category
Cell Lysate

Parental Cell line
HCT116

Genotype
Knockdown

Gene Information

Gene Symbol
TP53

Species
Human

Gene ID
7157

Swiss Prot
P04637

Synonyms
BCC7; LFS1; P53; TRP53

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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]

Product Information

Description
TP53 Knockdown HCT116 Cell Line is engineered from HCT116 cell line with Gene-Editing technology.
Allele-1:9bp insertion and 18bp deletion in exon1
Allele-2:4bp 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.

Sequencing data

```
WT   GCTGCCCC**********************GATAGCGA
Mut  GCTGCCCC***Insertion***Deletion***GATAGCGA
Allele-1:   9bp insertion and 18bp deletion in exon1

WT   CTGCCCCCACCATG*************CTGCTCAGATAGCG
Mut  CTGCCCCCACCATG***Deletion***CTGCTCAGATAGCG
Allele-2:   4bp deletion in exon1
```

Genome sequence analysis of PCR products from parental (WT) and TP53 knockdown (KD) HCT116 cells, using sanger sequencing.

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