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TP63 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02474

Basic Information

Catalog No.
RM02474

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockout

Gene Information

Gene Symbol
TP63

Species
Human

Gene ID
8626

Swiss Prot
Q9H3D4

Synonyms
AIS; B(p51A); B(p51B); EEC3; KET; LMS; NBP; OFC8; RHS; SHFM4; TP53CP; TP53L; TP73L; p40; p51; p53CP; p63; p73H; p73L

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Background

This gene encodes a member of the p53 family of transcription factors. The functional domains of p53 family proteins include an N-terminal transactivation domain, a central DNA-binding domain and an oligomerization domain. Alternative splicing of this gene and the use of alternative promoters results in multiple transcript variants encoding different isoforms that vary in their functional properties. These isoforms function during skin development and maintenance, adult stem/progenitor cell regulation, heart development and premature aging. Some isoforms have been found to protect the germline by eliminating oocytes or testicular germ cells that have suffered DNA damage. Mutations in this gene are associated with ectodermal dysplasia, and cleft lip/palate syndrome 3 (EEC3); split-hand/foot malformation 4 (SHFM4); ankyloblepharon-ectodermal defects-cleft lip/palate; ADULT syndrome (acro-dermato-ungual-lacrimal-tooth); limb-mammary syndrome; Rap-Hodgkin syndrome (RHS); and orofacial cleft 8. [provided by RefSeq, Aug 2016]

Product Information

Description
TP63 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.
Allele-1:74bp deletion in exon5
Allele-2:74bp deletion in exon5
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

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WT     GCCCCATCCAGATC**************GGAGGTGGTGAAGC
Mut    GCCCCATCCAGATC***Deletion***GGAGGTGGTGAAGC
Allele-1：74bp deletion  in exon5

WT     GCCCCATCCAGATC**************GGAGGTGGTGAAGC
Mut    GCCCCATCCAGATC***Deletion***GGAGGTGGTGAAGC
Allele-2：74bp deletion  in exon5
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Genome sequence analysis of PCR products from parental (WT) and TP63 knockout (KO) HeLa cells, using sanger sequencing.