

TP63 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02474

Basic Information

Catalog No.

RM02474

Category

Cell Lysate

Parental Cell line

HeLa

Genotype

Knockout

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]

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

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°C

Amount

50μL, 2μg/μL

Storage

Lysate is stable for 12 months when stored at -20°C. 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 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

Genome sequence analysis of PCR products from parental (WT) and TP63 knockout (KO) HeLa cells, using sanger sequencing.