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PAX3 Knockdown 293T Cell Line, Heterozygous

Catalog No.: RM01900

Basic Information

Catalog No.
RM01900

Category
Cell Line

Parental Cell line
293T

Genotype
Knockdown

Background

This gene is a member of the paired box (PAX) family of transcription factors. Members of the PAX family typically contain a paired box domain and a paired-type homeodomain. These genes play critical roles during fetal development. Mutations in paired box gene 3 are associated with Waardenburg syndrome, craniofacial-deafness-hand syndrome, and alveolar rhabdomyosarcoma. The translocation t(2;13)(q35;q14), which represents a fusion between PAX3 and the forkhead gene, is a frequent finding in alveolar rhabdomyosarcoma. Alternative splicing results in transcripts encoding isoforms with different C-termini. [provided by RefSeq, Jul 2008]

Gene Information

Gene Symbol
PAX3

Species
Human

Gene ID
5077

Swiss Prot
P23760

Synonyms
CDHS; HUP2; WS1; WS3

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Product Information

Description
PAX3 Knockdown 293T Cell Line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:168bp deletion in exon2
Allele-2:169bp 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 line and 1 vial knockout cell line

Shipping Conditions
Dry ice

Amount
1~5x10^6 cells/vial

Storage
Stored in liquid nitrogen for a long time less than -130℃. Minimizing freeze-thaw cycles.

Protocol
Upon arrival, it should be maintained in DMEM medium with 10%(v/v) fetal bovine serum and 100U penicillin-streptomycin, at 37℃ with 5% CO_2 condition.
1. Thaw the vial in 37℃ water bath ,and shake it to melt as soon as possible.
2. Transfer the cell suspension to a 15mL conical tube with pre-warmed 5mL complete medium and centrifuge 1000rpm for approximately 5 minutes at room temperature.
3. Remove and discard the supernatant.
4. Resuspend the cell pellet with 1mL pre-warmed complete medium and seed in 10cm dish.
5. Add 8-10mL of complete medium.
6. Incubate the culture at 37℃ incubator with 5% CO_2.
7. A subcultivation ratio of 1:2-1:4 is recommended.

Sequencing data

WT CGCGTCAACCAGCT**********TCCTGGTGCCATCG
Mut CGCGTCAACCAGCT***Deletion***TCCTGGTGCCATCG
Allele-1: 168bp deletion in exon2

WT CGCGTCAACCAGCT**********CCTGGTGCCATCGG
Mut CGCGTCAACCAGCT***Deletion***CCTGGTGCCATCGG
Allele-2: 169bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and PAX3 Knockdown (KD) 293T cells, using sanger sequencing.