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PAX3 Knockdown 293T Cell Lysate, Heterozygous

Catalog No.: RM02027

Basic Information

Catalog No.
RM02027

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockdown

Gene Information

Gene Symbol
PAX3

Species
Human

Gene ID
5077

Swiss Prot
P23760

Synonyms
CDHS; HUP2; WS1; WS3

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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]

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 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

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.