

# 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

## Contact

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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°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.

## Sequencing data

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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.