

# TGFBR2 Knockdown 293T Cell Lysate, Heterozygous

Catalog No.: RM02307

## Basic Information

### Catalog No.

RM02307

### Category

Cell Lysate

### Parental Cell line

293T

### Genotype

Knockdown

## Gene Information

### Gene Symbol

TGFBR2

### Species

Human

### Gene ID

7048

### Swiss Prot

P37173

### Synonyms

AAT3; FAA3; LDS1B; LDS2; LDS2B; MFS2;  
RIIC; TAAD2; TGFR-2; TGFbeta-RII

## Contact

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## Background

This gene encodes a member of the Ser/Thr protein kinase family and the TGFβ receptor subfamily. The encoded protein is a transmembrane protein that has a protein kinase domain, forms a heterodimeric complex with another receptor protein, and binds TGF-β. This receptor/ligand complex phosphorylates proteins, which then enter the nucleus and regulate the transcription of a subset of genes related to cell proliferation. Mutations in this gene have been associated with Marfan Syndrome, Loeys-Deitz Aortic Aneurysm Syndrome, and the development of various types of tumors. Alternatively spliced transcript variants encoding different isoforms have been characterized. [provided by RefSeq, Jul 2008]

## Product Information

### Description

TGFBR2 Knockdown 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.

Allele-1:21bp deletion and 8bp deletion in exon3

Allele-2:90bp deletion in exon3

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 CAGTTGGCCATGAC\*\*\*\*\*TTTATTCTGGGAAGA\*\*\*CTTCATGTGTCTGTAGCTCTGATGAGTGAATGA  
Mut CAGTTGGCCATGAC\*\*\*Deletion\*\*\*TTTATTCTGGGAAGA\*\*\*CTTCATGTGTCTCT-----GATGAGTGAATGA  
Allele-1: 21bp deletion and 8bp deletion in exon3  
WT CAAGCTCCCTACC\*\*\*\*\*GCTCTGATGAGTGC  
Mut CAAGCTCCCTACC\*\*\*Deletion\*\*\*GCTCTGATGAGTGC  
Allele-2: 9bp deletion in exon3

Genome sequence analysis of PCR products from parental (WT) and TGFBR2 Knockdown (KD) 293T cells, using sanger sequencing.