

TGFB3 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM50034

Basic Information

Catalog No.

RM50034

Category

Cell Lysate

Parental Cell line

293T

Genotype

Knockout

Gene Information

Gene Symbol

TGFB3

Species

Human

Gene ID

7043

Swiss Prot

P10600

SynonymsARVD; LDS5; RNHF; ARVD1; TGF-beta3;
TGFB3

Contact

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Background

This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate a latency-associated peptide (LAP) and a mature peptide, and is found in either a latent form composed of a mature peptide homodimer, a LAP homodimer, and a latent TGF-beta binding protein, or in an active form consisting solely of the mature peptide homodimer. The mature peptide may also form heterodimers with other TGF-beta family members. This protein is involved in embryogenesis and cell differentiation, and may play a role in wound healing. Mutations in this gene are a cause of aortic aneurysms and dissections, as well as familial arrhythmogenic right ventricular dysplasia 1.

Product Information

Description

TGFB3 Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.

Allele-1:130bp insertion in exon1

Allele-2:130bp insertion in exon1

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

WT CCCCTGAGCCAACG GTGATGACCCACG
Mut CCCCTGAGCCAACG***Insertion***GTGATGACCCACG
Allele-1: 130bp Insertion in exon1

Genome sequence analysis of PCR products from parental (WT) and TGFβ3 knockout (KO) 293T cells, using sanger sequencing.

WT CCCCTGAGCCAACG GTGATGACCCACG
Mut CCCCTGAGCCAACG***Insertion***GTGATGACCCACG
Allele-2: 130bp Insertion in exon1