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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

Synonyms
ARVD; LDS5; RNHF; ARVD1; TGF-beta3; TGFB3

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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℃

Amount
50μL, 2μg/μL.

Storage
Lysate is stable for 12 months when stored at -20℃. 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   CCCCTGAGCCAACG                    GTGATGACCCACG
Mut  CCCCTGAGCCAACG***Insertion***GTGATGACCCACG
Allele-1:   130bp Insertion in exon1

WT   CCCCTGAGCCAACG                    GTGATGACCCACG
Mut  CCCCTGAGCCAACG***Insertion***GTGATGACCCACG
Allele-2:   130bp Insertion in exon1
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Genome sequence analysis of PCR products from parental (WT) and TGFB3 knockout (KO) 293T cells, using sanger sequencing.

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