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GDF3 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM50006

Basic Information

Catalog No.
RM50006

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

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 each subunit of the disulfide-linked homodimer. This protein plays a role ocular and skeletal development. Mutations in this gene are associated with microphthalmia, coloboma, and skeletal abnormalities in human patients.

Gene Information

Gene Symbol
GDF3

Species
Human

Gene ID
9573

Swiss Prot
Q9NR23

Synonyms
KFS3; MCOP7; MCOPCB6; GDF3

Product Information

Description
GDF3 Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:82bp deletion in exon1
Allele-2:82bp deletion 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.

Contact

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Sequencing data

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WT    ATTTCTGGGCTTAG**********CACTGGGGTCTCCC
Mut   ATTTCTGGGCTTAG***Deletion***CACTGGGGTCTCCC
Allele-1:   82bp deletion in exon1

WT    ATTTCTGGGCTTAG**********CACTGGGGTCTCCC
Mut   ATTTCTGGGCTTAG***Deletion***CACTGGGGTCTCCC
Allele-2:   82bp deletion in exon1
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Genome sequence analysis of PCR products from parental (WT) and GDF3 knockout (KO) 293T cells, using sanger sequencing.