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TJP2 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02051

Basic Information

Catalog No.
RM02051

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockout

Gene Information

Gene Symbol
TJP2

Species
Human

Gene ID
9414

Swiss Prot
Q9UDY2

Synonyms
C9DUPq21.11; DFNA51; DUP9q21.11; PFIC4; X104; ZO2

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Background

This gene encodes a zonula occluden that is a member of the membrane-associated guanylate kinase homolog family. The encoded protein functions as a component of the tight junction barrier in epithelial and endothelial cells and is necessary for proper assembly of tight junctions. Mutations in this gene have been identified in patients with hypercholanemia, and genomic duplication of a 270 kb region including this gene causes autosomal dominant deafness-51. Alternatively spliced transcripts encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Nov 2011]

Product Information

Description
TJP2 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.
Allele-1:67bp deletion in exon1
Allele-2:67bp 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
Store at -20℃

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 GGAATTGCAGTGTC**********GGTGGGCCTGCTGA
Mut GGAATTGCAGTGTC***Deletion***GGTGGGCCTGCTGA
Allele-1: 67bp deletion in exon1

WT GGAATTGCAGTGTC**********GGTGGGCCTGCTGA
Mut GGAATTGCAGTGTC***Deletion***GGTGGGCCTGCTGA
Allele-2: 67bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and TJP2 knockout (KO) HeLa cells, using sanger sequencing.