

TJP1 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02326

Basic Information

Catalog No.

RM02326

Category

Cell Lysate

Parental Cell line

HeLa

Genotype

Knockout

Gene Information

Gene Symbol

TJP1

Species

Human

Gene ID

7082

Swiss Prot

Q07157

Synonyms

ZO-1

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Background

This gene encodes a protein located on a cytoplasmic membrane surface of intercellular tight junctions. The encoded protein may be involved in signal transduction at cell-cell junctions. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jul 2014]

Product Information

Description

TJP1 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.

Allele-1:exon3 was deleted

Allele-2:exon3 was deleted

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 CTAATAGGTAACCA*****CGTGGGCACTGTGC
Mut CTAATAGGTAACCA***Deletion***CGTGGGCACTGTGC
Allele-1: exon3 was deleted

WT CTAATAGGTAACCA*****CGTGGGCACTGTGC
Mut CTAATAGGTAACCA***Deletion***CGTGGGCACTGTGC
Allele-2: exon3 was deleted

Genome sequence analysis of PCR products from parental (WT) and TJP1 Knockout (KO) HeLa cells, using sanger sequencing.