

GJA1 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02360

Basic Information

Catalog No.

RM02360

Category

Cell Lysate

Parental Cell line

HeLa

Genotype

Knockout

Gene Information

Gene Symbol

GJA1

Species

Human

Gene ID

2697

Swiss Prot

P17302

Synonyms

AVSD3; CMDR; CX43; EKVP; GJAL;
HLHS1; HSS; ODDD; PPKCA

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Background

This gene is a member of the connexin gene family. The encoded protein is a component of gap junctions, which are composed of arrays of intercellular channels that provide a route for the diffusion of low molecular weight materials from cell to cell. The encoded protein is the major protein of gap junctions in the heart that are thought to have a crucial role in the synchronized contraction of the heart and in embryonic development. A related intronless pseudogene has been mapped to chromosome 5. Mutations in this gene have been associated with oculodentodigital dysplasia, autosomal recessive craniometaphyseal dysplasia and heart malformations. [provided by RefSeq, May 2014]

Product Information

Description

GJA1 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.

Allele-1:143bp deletion in exon1

Allele-2:143bp 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°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 TTCTATGTGATGCG*****GGGGGTTGCTGCGA
Mut TTCTATGTGATGCG***Deletion***GGGGGTTGCTGCGA
Allele-1: 143bp deletion in exon1
WT TTCTATGTGATGCG*****GGGGGTTGCTGCGA
Mut TTCTATGTGATGCG***Deletion***GGGGGTTGCTGCGA
Allele-2: 143bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and GJA1 knockout (KO) HeLa cells, using sanger sequencing.