

GNAI3 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02387

Basic Information

Catalog No.

RM02387

Category

Cell Lysate

Parental Cell line

HeLa

Genotype

Knockout

Gene Information

Gene Symbol

GNAI3

Species

Human

Gene ID

2773

Swiss Prot

P08754

Synonyms

87U6; ARCND1

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Background

Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers in various transmembrane signaling pathways. G proteins are composed of 3 units: alpha, beta and gamma. This gene encodes an alpha subunit and belongs to the G-alpha family. Mutation in this gene, resulting in a gly40-to-arg substitution, is associated with auriculocondylar syndrome, and shown to affect downstream targets in the G protein-coupled endothelin receptor pathway. [provided by RefSeq, Jun 2012]

Product Information

Description

GNAI3 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.

Allele-1:70bp deletion in exon1

Allele-2:71bp 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 TCAGCCTGCCGAGC*****GGGAGGACGGGGAA
Mut TCAGCCTGCCGAGC***Deletion***GGGAGGACGGGGAA
Allele-1: 70bp deletion in exon1

WT AGCCTGCCGAGCCG*****GGAGGACGGGGAAA
Mut AGCCTGCCGAGCCG***Deletion***GGAGGACGGGGAAA
Allele-2: 71bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and GNAI3 knockout (KO) HeLa cells, using sanger sequencing.