

FLOT1 Knockdown 293T cell line, Heterozygous

Catalog No.: RM50173

Basic Information

Catalog No.

RM50173

Category

Cell Lysate

Parental Cell line

293T

Genotype

Knockdown

Gene Information

Gene Symbol

FLOT1

Species

Human

Gene ID

10211

Swiss Prot

O75955

Synonyms

FLOT1; 1

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Background

This gene encodes an protein that localizes to the caveolae, which are small domains on the inner cell membranes. This protein plays a role in vesicle trafficking and cell morphology. Alternative splicing results in multiple transcript variants.

Product Information

Description

FLOT1 Knockdown cell line is engineered from 293T cell line with Gene-Editing Technology.

Allele-1:63bp deletion in exon4

Allele-2:64bp deletion in exon4

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 line and 1 vial knockout cell line

Shipping Conditions

Dry ice

Amount

1~5x10⁶ cells/vial.

Storage

Stored in liquid nitrogen for a long time less than -130°C. Minimizing freeze-thaw cycles.

Protocol

Upon arrival, it should be maintained in DMEM medium with 10%(v/v) fetal bovine serum and 100U penicillin-streptomycin, at 37°C with 5% CO₂ condition.

1. Thaw the vial in 37°C water bath ,and shake it to melt as soon as possible.
2. Transfer the cell suspension to a 15mL conical tube with pre-warmed 5mL complete medium and centrifuge 1000rpm for approximately 5 minutes at room temperature.
3. Remove and discard the supernatant.
4. Resuspend the cell pellet with 1mL pre-warmed complete medium and seed in 10cm dish.
5. Add 8-10mL of complete medium.
6. Incubate the culture at 37°C incubator with 5% CO₂.
7. A subcultivation ratio of 1:2-1:4 is recommended.

Sequencing data

WT GCGGCCGCTGCA*****CCAGAGGCCATCA
Mut GCGGCCGCTGCA***Deletion***CCAGAGGCCATCA
Allele-1: 63bp deletion in exon4

WT GCGGCCGCTGCA*****CAGAGGCCATCAT
Mut GCGGCCGCTGCA***Deletion***CAGAGGCCATCAT
Allele-2: 64bp deletion in exon4

Genome sequence analysis of PCR products from parental (WT) and FLOT1 knockdown (KD) 293T cells, using sanger sequencing.