

GSDMD Knockdown HeLa Cell Line, Heterozygous

Catalog No.: RM02213

Basic Information

Catalog No.

RM02213

Category

Cell Line

Parental Cell line

HeLa

Genotype

Knockdown

Gene Information

Gene Symbol

GSDMD

Species

Human

Gene ID

79792

Swiss Prot

P57764

Synonyms

DF5L; DFNA5L; FKSG10; GSDMDC1

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Background

Gasdermin D is a member of the gasdermin family. Members of this family appear to play a role in regulation of epithelial proliferation. Gasdermin D has been suggested to act as a tumor suppressor. Alternatively spliced transcript variants have been described. [provided by RefSeq, Oct 2009]

Product Information

Description

GSDMD Knockdown HeLa cell line is engineered from HeLa cell line with Gene-Editing Technology.

Allele-1:1bp insertion and 16bp deletion in exon1

Allele-2:85bp 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 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 CCAAGCCCTACTGCTTGGTGGTATAGGAAGC***TGTCAACCTGTCTA*****GCCGGATGCCGCGGA
Mut CCAAGCCCTACTGCTTGGTGGTATAGGAAGC***TGTCAACCTGTCTA***Deletion***GCCGGATGCCGCGGA
Allele-1: 1bp insertion and 16bp deletion in exon1
WT CTTCAGCCCTACT*****GCCGGATGCCGCGG
Mut CTTCAGCCCTACT***Deletion***GCCGGATGCCGCGG
Allele-2: 85bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and GSDMD Knockdown (KD) HeLa cells, using sanger sequencing.