

MB21D1 Knockdown HeLa Cell Line, Heterozygous

Catalog No.: RM50070

Basic Information

Catalog No.

RM50070

Category

Cell Line

Parental Cell line

HeLa

Genotype

Knockdown

Gene Information

Gene Symbol

MB21D1

Species

Human

Gene ID

115004

Swiss Prot

Q8N884

Synonyms

MB21D1; h-cGAS; C6orf150; cGAS

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Background

Enables several functions, including 2',3'-cyclic GMP-AMP synthase activity; chromatin binding activity; and phosphatidylinositol-4,5-bisphosphate binding activity. Involved in several processes, including cellular response to exogenous dsRNA; positive regulation of intracellular signal transduction; and regulation of defense response. Located in several cellular components, including cytosol; nucleus; and site of double-strand break.

Product Information

Description

MB21D1 Knockdown cell line is engineered from HeLa cell line with Gene-Editing Technology.

Allele-1:132bp deletion in exon1

Allele-2:125bp 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 GAATGCCAGGGGCG*****TCCGCGCAACTGGG
Mut GAATGCCAGGGGCG***Deletion***TCCGCGCAACTGGG
Allele-1: 132bp deletion in exon1

WT CAGGGGCGCCCCGA*****GTCCGCGCAACTGG
Mut CAGGGGCGCCCCGA***Deletion***GTCCGCGCAACTGG
Allele-2: 125bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and MB21D1 knockdown (KD) HeLa cells, using sanger sequencing.