

# 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

## Contact

☎ | 400-999-6126

✉ | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn)

🌐 | [www.abclonal.com.cn](http://www.abclonal.com.cn)

## 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

1~5x10<sup>6</sup> 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% CO<sub>2</sub> 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% CO<sub>2</sub>.
7. A subcultivation ratio of 1:2-1:4 is recommended.

## Sequencing data

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WT GAATGCCAGGGGCG\*\*\*\*\*TCCGCGCAACTGGG  
Mut GAATGCCAGGGGCG\*\*\*Deletion\*\*\*TCCGCGCAACTGGG  
Allele-1: 132bp deletion in exon1

WT CAGGGGCGCCCGA\*\*\*\*\*GTCCGCGCAACTGG  
Mut CAGGGGCGCCCGA\*\*\*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.