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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
1~5x10^6 cells/vial.

Storage
Stored in liquid nitrogen for a long time less than -130℃. 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℃ with 5% CO_2 condition.

1. Thaw the vial in 37℃ 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℃ incubator with 5% CO_2.
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    CAGGGGCGCCCCGA**********GTCCGCGCAACTGG
Mut   CAGGGGCGCCCCGA***Deletion***GTCCGCGCAACTGG
Allele-2:   125bp deletion in exon1
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Genome sequence analysis of PCR products from parental (WT) and MB21D1 knockdown (KD) HeLa cells, using sanger sequencing.