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MYSM1 Knockout HeLa Cell Line, Homozygous

Catalog No.: RM50051

Basic Information

Catalog No.
RM50051

Category
Cell Line

Parental Cell line
HeLa

Genotype
Knockout

Background

Enables histone binding activity; peptidase activity; and transcription coactivator activity. Involved in several processes, including chromatin remodeling; monoubiquitinated histone H2A deubiquitination; and positive regulation of transcription by RNA polymerase II. Located in nucleolus and nucleoplasm. Part of protein-containing complex. Implicated in diabetic retinopathy.

Gene Information

Gene Symbol
MYSM1

Species
Human

Gene ID
114803

Swiss Prot
Q5VVJ2

Synonyms
2ADUB; BMFS4; 2A-DUB; MYSM1

Product Information

Description
MYSM1 Knockout cell line is engineered from HeLa cell line with Gene-Editing Technology.
Allele-1:exon1 was deleted
Allele-2:exon1 was deleted
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
Store at -20℃

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.

Contact

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Sequencing data

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WT   TCGGGA       GGAC*************TCCGGCAAGGGAAA
Mut  TCGGGATCTTGGAC***Deletion***TCCGGCAAGGGAAA
Allele-1:   exon1 was deleted

WT   TCTCGGGAGGACGG*************GCGGGCCCTGGGAA
Mut  TCTCGGGAGGACGG***Deletion***GCGGGCCCTGGGAA
Allele-2:   exon1 was deleted
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Genome sequence analysis of PCR products from parental (WT) and MYSM1 knockout (KO) HeLa cells, using sanger sequencing.

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