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KDM5B Knockdown 293T Cell Line, Heterozygous

Catalog No.: RM02760

Basic Information

Catalog No.
RM02760

Category
Cell Line

Parental Cell line
293T

Genotype
Knockdown

Background

This gene encodes a lysine-specific histone demethylase that belongs to the jumonji/ARID domain-containing family of histone demethylases. The encoded protein is capable of demethylating tri-, di- and monomethylated lysine 4 of histone H3. This protein plays a role in the transcriptional repression or certain tumor suppressor genes and is upregulated in certain cancer cells. This protein may also play a role in genome stability and DNA repair. Alternate splicing results in multiple transcript variants.

Gene Information

Gene Symbol
KDM5B

Species
Human

Gene ID
10765

Swiss Prot
Q9UGL1

Synonyms
CT31; PLU1; PUT1; MRT65; PLU-1; JARID1B; PPP1R98; RBP2-H1; RBBP2H1A; 5B

Product Information

Description
KDM5B Knockdown cell line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:78bp deletion in exon1
Allele-2:77bp 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
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    GCCTCCACCCGAGT**********AGACTGGCATCTGT
Mut   GCCTCCACCCGAGT***Deletion***AGACTGGCATCTGT
AIlele-1:   78bp deletion in exon1

WT    GCCTCCACCCGAGT**********CAGACTGGCATCTG
Mut   GCCTCCACCCGAGT***Deletion***CAGACTGGCATCTG
AIlele-2:   77bp deletion in exon1
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Genome sequence analysis of PCR products from parental (WT) and KnockdownM5B knockdown (KD) 293T cells, using sanger sequencing.