

KDM5B Knockdown 293T Cell Line, Heterozygous

Catalog No.: RM02760

Basic Information

Catalog No.

RM02760

Category

Cell Line

Parental Cell line

293T

Genotype

Knockdown

Gene Information

Gene Symbol

KDM5B

Species

Human

Gene ID

10765

Swiss Prot

Q9UGL1

SynonymsCT31; PLU1; PUT1; MRT65; PLU-1;
JARID1B; PPP1R98; RBP2-H1; RBBP2H1A;
5B

Contact

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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.

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

1~5x10⁶ 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 GCCTCCACCCGAGT*****AGACTGGCATCTGT
Mut GCCTCCACCCGAGT***Deletion***AGACTGGCATCTGT
Allele-1: 78bp deletion in exon1

WT GCCTCCACCCGAGT*****CAGACTGGCATCTG
Mut GCCTCCACCCGAGT***Deletion***CAGACTGGCATCTG
Allele-2: 77bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and KnockdownM5B knockdown (KD) 293T cells, using sanger sequencing.