

# 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

### Synonyms

CT31; 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

1~5x10<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 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.