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# HIST1H3B Knockout HeLa Cell Line, Homozygous

Catalog No.: RM02087

#### **Basic Information**

#### Catalog No.

RM02087

#### Category

Cell Line

#### **Parental Cell line**

HeLa

#### Genotype

Knockout

#### **Gene Information**

#### **Gene Symbol**

HIST1H3B

#### **Species**

Human

### Gene ID

8350

#### **Swiss Prot**

P68431

#### **Synonyms**

H3/A; H3FA

#### **Contact**

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## **Background**

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. This structure consists of approximately 146 bp of DNA wrapped around a nucleosome, an octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. This gene is intronless and encodes a replication-dependent histone that is a member of the histone H3 family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. This gene is found in the large histone gene cluster on chromosome 6p22-p21.3. [provided by RefSeq, Aug 2015]

#### **Product Information**

#### Description

HIST1H3B Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing Technology.

Allele-1:59bp deletion in exon1

Allele-2:59bp 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**

 ${\bf 1}$  vial parental cell line and  ${\bf 1}$  vial knockout cell line

## **Shipping Conditions**

**Amount** 

Dry ice

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  $37^{\circ}C$  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

WT GCCTCACCGTTACC\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*ATTCGGAAGCTGCC
Mut GCCTCACCGTTACC\*\*\*Deletion\*\*\*ATTCGGAAGCTGCC
Allele-1: 59bp deletion in exon1

WT GCCTCACCGTTACC\*\*\*\*\*\*\*\*\*ATTCGGAAGCTGCC
Mut GCCTCACCGTTACC\*\*\*Deletion\*\*\*ATTCGGAAGCTGCC

Allele-2: 59bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and HIST1H3B knockout (KO) HeLa cells, using sanger sequencing.