

# RELA Knockout HeLa Cell Line, Homozygous

Catalog No.: RM02085

## Basic Information

### Catalog No.

RM02085

### Category

Cell Line

### Parental Cell line

HeLa

### Genotype

Knockout

## Gene Information

### Gene Symbol

RELA

### Species

Human

### Gene ID

5970

### Swiss Prot

Q04206

### Synonyms

NFKB3; p65

## Contact

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## Background

NF-kappa-B is a ubiquitous transcription factor involved in several biological processes. It is held in the cytoplasm in an inactive state by specific inhibitors. Upon degradation of the inhibitor, NF-kappa-B moves to the nucleus and activates transcription of specific genes. NF-kappa-B is composed of NFKB1 or NFKB2 bound to either REL, RELA, or RELB. The most abundant form of NF-kappa-B is NFKB1 complexed with the product of this gene, RELA. Four transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2011]

## Product Information

### Description

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

Allele-1:1bp insertion in exon3

Allele-2:2bp deletion in exon3

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    CCAGGCCTCTGGCCCTAT-GTGGAGATCATTGAGCAGC  
Mut    CCAGGCCTCTGGCCCTAT**T**GTGGAGATCATTGAGCAGC  
Allele-1: 1bp insertion in exon3  
  
WT    GCCTCTGGCCCTA\*\*\*\*\*TGGAGATCATTGAG  
Mut    GCCTCTGGCCCTA\*\*\*Deletion\*\*\*TGGAGATCATTGAG  
Allele-2: 2bp deletion in exon3

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