

# IFI16 Knockout HeLa Cell Line, Homozygous

**Catalog No.:** RM02445

## Basic Information

**Catalog No.**

RM02445

**Category**

Cell Line

**Parental Cell line**

HeLa

**Genotype**

Knockout

## Gene Information

**Gene Symbol**

IFI16

**Species**

Human

**Gene ID**

3428

**Swiss Prot**

Q16666

**Synonyms**

IFNGIP1; PYHIN2

## Contact

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## Background

This gene encodes a member of the HIN-200 (hematopoietic interferon-inducible nuclear antigens with 200 amino acid repeats) family of cytokines. The encoded protein contains domains involved in DNA binding, transcriptional regulation, and protein-protein interactions. The protein localizes to the nucleoplasm and nucleoli, and interacts with p53 and retinoblastoma-1. It modulates p53 function, and inhibits cell growth in the Ras/Raf signaling pathway. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2011]

## Product Information

**Description**

IFI16 Knockout HeLa Cell Line knockout is engineered from HeLa cell line with Gene-Editing Technology.

Allele-1:exon2 was deleted

Allele-2:exon2 was deleted

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 AGCAGGAACTGAGA\*\*\*\*\*ATCAGGTAAGTACT  
Mut AGAAGCCACTGGGA\*\*\*Deletion\*\*\*ATCAGGTAAGTACT  
Allele-1: exon2 was deleted

WT AGCAGGAACTGAGA\*\*\*\*\*ATCAGGTAAGTACT  
Mut AGAAGCCACTGGGA\*\*\*Deletion\*\*\*ATCAGGTAAGTACT  
Allele-2: exon2 was deleted

Genome sequence analysis of PCR products from parental (WT) and IFI16 knockout (KO) HeLa cells, using sanger sequencing.