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# JAK1 Knockout HeLa Cell Line, Homozygous

Catalog No.: RM01889

## **Basic Information**

#### Catalog No.

RM01889

#### Category

Cell Line

#### **Parental Cell line**

HeLa

#### Genotype

Knockout

## **Background**

This gene encodes a membrane protein that is a member of a class of protein-tyrosine kinases (PTK) characterized by the presence of a second phosphotransferase-related domain immediately N-terminal to the PTK domain. The encoded kinase phosphorylates STAT proteins (signal transducers and activators of transcription) and plays a key role in interferon-alpha/beta and interferon-gamma signal transduction. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2016]

## **Gene Information**

## **Gene Symbol**

JAK1

#### **Species**

Human

## Gene ID

3716

## **Swiss Prot**

P23458

## Synonyms

JAK1A; JAK1B; JTK3

#### **Contact**

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## **Product Information**

#### Description

JAK1 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing Technology.

Allele-1:73bp deletion in exon4

Allele-2:74bp deletion in exon4

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.

#### Protoco

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

CATGGAACCAACGA\*\*\*\*\*\*\*\*\*GCAACCCCTCTCCT Mut CATGGAACCAACGA\*\*\*Deletion\*\*\*GCAACCCCTCTCCT Allele-1: 73bp deletion in exon4

WT GCATGGAACCAACG\*\*\*\*\*\*\*\*\*\*\*GCAACCCCTCTCCT

Mut GCATGGAACCAACG\*\*\*Deletion\*\*\*GCAACCCCTCTCCT

Allele-2: 74bp deletion in exon4

Genome sequence analysis of PCR products from parental (WT) and JAK1 knockout (KO) HeLa cells, using sanger sequencing.