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# JAK1 Knockout HeLa Cell Lysate, Homozygous

**Catalog No.: RM02018**

## Basic Information

**Catalog No.**
RM02018

**Category**
Cell Lysate

**Parental Cell line**
HeLa

**Genotype**
Knockout

## Gene Information

**Gene Symbol**
JAK1

**Species**
Human

**Gene ID**
3716

**Swiss Prot**
P23458

**Synonyms**
JAK1A; JAK1B; JTK3

## Contact


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## 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]

## 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**
1 vial parental cell Lysate and 1 vial knockout cell Lysate

**Shipping Conditions**
4℃

**Amount**
50μL, 2μg/μL.

**Storage**
Store at -20℃

**Protocol**
To be used as WB control. Lysate is supplied in 1× SDS sample buffer (2% SDS, 60 mM Tris-HCl pH 6.8, 10% Glycerol, 0.02% Bromophenol blue, 60 mM beta-mercaptoethanol). Lysate should be boiled for 3 - 5 minutes before loading onto gel.

## Sequencing data

```
WT    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.



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