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JAK1 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02018

Basic Information

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RM02018

Category
Cell Lysate

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

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.

Contact

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Sequencing data

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

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