

IFI16 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02483

Basic Information

Catalog No.

RM02483

Category

Cell Lysate

Parental Cell line

HeLa

Genotype

Knockout

Gene Information

Gene Symbol

IFI16

Species

Human

Gene ID

3428

Swiss Prot

Q16666

Synonyms

IFNGIP1; PYHIN2

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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 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 Lysate and 1 vial knockout cell Lysate

Shipping Conditions

4°C

Amount

50µL, 2µg/µL.

Storage

Lysate is stable for 12 months when stored at -20°C. Minimizing freeze-thaw cycles.

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

WT AGCAGGAACTGAGA*****ATCAGGTAAGTACT
Mut AGAGCCACTGGGA***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.