

# MLKL Knockout HeLa Cell Lysate, Homozygous

**Catalog No.:** RM01784

## Basic Information

### Catalog No.

RM01784

### Category

Cell Lysate

### Parental Cell line

HeLa

### Genotype

Knockout

## Gene Information

### Species

Human

### Gene ID

197259

### Swiss Prot

Q8NB16

### Synonyms

hMLKL

## Contact

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## Background

This gene belongs to the protein kinase superfamily. The encoded protein contains a protein kinase-like domain; however, is thought to be inactive because it lacks several residues required for activity. This protein plays a critical role in tumor necrosis factor (TNF)-induced necroptosis, a programmed cell death process, via interaction with receptor-interacting protein 3 (RIP3), which is a key signaling molecule in necroptosis pathway. Inhibitor studies and knockdown of this gene inhibited TNF-induced necrosis. High levels of this protein and RIP3 are associated with inflammatory bowel disease in children. Alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, Sep 2015]

## Product Information

### Description

MLKL Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.

Allele-1:169bp deletion in exon1

Allele-2:169bp deletion in exon1

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

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WT    CTGAGAAGTTAACC\*\*\*\*\*TTCAGGTTGAGCAA  
Mut   CTGAGAAGTTAACC\*\*\*Deletion\*\*\*TTCAGGTTGAGCAA  
Allele-1: 169bp deletion in exon1

WT    CTGAGAAGTTAACC\*\*\*\*\*TTCAGGTTGAGCAA  
Mut   CTGAGAAGTTAACC\*\*\*Deletion\*\*\*TTCAGGTTGAGCAA  
Allele-2: 169bp deletion in exon1

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