

# 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.