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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

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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℃

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 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.

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