

Recombinant Human MYLK3 293 Cell Lysate

Cat. No. MYLK3-4015HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for myosin light chain kinase 3 (MYLK3) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION
Gene Name

MYLK3 myosin light chain kinase 3 [Homo sapiens]

Official Symbol

MYLK3

Synonyms

MYLK3; myosin light chain kinase 3; putative myosin light chain kinase 3; caMLCK; MLC kinase; MLCK; cardiac-MyBP-C associated Ca/CaM kinase; cardiac-MyBP-C-associated Ca/CaM kinase; MLCK2; MGC126319; MGC126320;

Gene ID

91807

mRNA Refseq

NM_182493

Protein Refseq

NP_872299

MIM

612147

UniProt ID

Q32MK0

**Chromosome
Location**

16q11.2

Pathway

Calcium signaling pathway, organism-specific biosystem; Calcium signaling pathway, conserved biosystem; Focal adhesion, organism-specific biosystem; Focal adhesion, conserved biosystem; Gastric acid secretion, organism-specific biosystem; Gastric acid secretion, conserved biosystem; MicroRNAs in cardiomyocyte hypertrophy,

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organism-specific biosystem;

Function

ATP binding; calmodulin-dependent protein kinase activity; myosin light chain kinase activity; nucleotide binding;

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