

## Recombinant Human MYLK 293 Cell Lysate

Cat. No. MYLK-4017HCL Lot. No. (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	Antigen standard for myosin light chain kinase (MYLK), transcript variant 7 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.
<b>Components</b>	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).
<b>Size</b>	0.1 mg
<b>Storage Instruction</b>	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.
<b>Applications</b>	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

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

## GENE INFORMATION

**Gene Name** [MYLK myosin light chain kinase \[ Homo sapiens \]](#)

**Official Symbol** MYLK

**Synonyms** MYLK; myosin light chain kinase; myosin, light polypeptide kinase; myosin light chain kinase, smooth muscle; MLCK; MLCK1; MYLK1; smMLCK; smooth muscle myosin light chain kinase; telokin; kinase-related protein; KRP; AAT7; MLCK108; MLCK210; MSTP083; FLJ12216; DKFZp686I10125;

**Gene ID** [4638](#)

**mRNA Refseq** [NM\\_053025](#)

**Protein Refseq** [NP\\_444253](#)

**MIM** [600922](#)

**UniProt ID** [Q15746](#)

**Chromosome Location** 3q21

**Pathway** Aurora B signaling, organism-specific biosystem; Calcium signaling pathway, organism-specific biosystem; Calcium signaling pathway, conserved biosystem; Focal Adhesion, organism-specific biosystem; Focal adhesion, organism-specific biosystem; Focal adhesion, conserved biosystem; Gastric acid secretion, organism-specific biosystem;

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**Function**

ATP binding; actin binding; calmodulin binding; enzyme binding; kinase activity; metal ion binding; myosin light chain kinase activity; nucleotide binding; protein binding;

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