Recombinant Human Myosin Light Chain Kinase, GST-tagged, Active

Cat. No. MYLK-355H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MLCK (1425-1776) was expressed by baculovirus in*Sf9 insect cell*susing a N-terminal GST tag. MW = 70 kDa.
Species	Human
Source	Sf9 Cells
ProteinLength	1425-1776 a.a.
Description	MLCK or myosin light chain kinase is a muscle member of the immunoglobulin gene superfamily and is a calcium/calmodulin dependent protein kinase. MLCK is a regulatory protein for smooth muscle contraction, which acts by phosphorylating 20-kDa myosin light chain (MLC20) to activate the myosin ATPase activity. The kinase activity for the phosphorylation is localized at the central part of MLCK, which is also furnished with actin-binding activity at its N terminal and myosin-binding activity at its C terminal. Phosphorylation of regulatory light chain of myosin plays an important role in controlling the morphological changes seen during cell division.
Sequence	1425-1776.
Applications	Kinase Assay, Western Blot.
Storage And Stability	Store product at -70℃. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable

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	performance, avoid repeated handling and multiple freeze/thaw cycles.

GENE INFORMATION

Gene Name	MYLK myosin light chain kinase [Homo sapiens]
Synonyms	MYLK; myosin light chain kinase; KRP; MLCK; MLCK1; MYLK1; smMLCK; MLCK108; MLCK210; MSTP083; FLJ12216; DKFZp686I10125; OTTHUMP00000180642; myosin, light polypeptide kinase; smooth muscle myosin light chain kinase; EC 2.7.11.18; OTTHUMP00000180643; Telokin; smMLCK; Kinase-related protein; Myosin light chain kinase, smooth muscle
Gene ID	4638
mRNA Refseq	NM_053025
Protein Refseq	NP_444253
MIM	600922
UniProt ID	Q15746
Chromosome Location	3q21
Pathway	Calcium signaling pathway; Focal adhesion; Regulation of actin cytoskeleton; Vascular smooth muscle contraction
Function	ATP binding; actin binding; calcium ion binding; calmodulin binding; magnesium ion binding; myosin light chain kinase activity; nucleotide binding; transferase activity

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PDB rendering based on 2cqv.	

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