

Recombinant Human Myosin Light Chain Kinase 2, His-tagged, Active

Cat. No. MYLK2-365H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human MYLK2 was expressed by baculovirus in Sf9 insect cells using an N-terminal His tag. MW = 74 kDa.
Species	Human
Source	Sf9 Cells
Description	MYLK2 is a member of the myosin light chain kinase family and is a calcium/calmodulin dependent enzyme that is exclusively expressed in adult skeletal muscle. MYLK2 has been proposed to participate in signaling pathways (calcium signaling pathway, focal adhesion, regulation of actin cytoskeleton) and cellular processes (neuromuscular synaptic transmission, protein/amino acid phosphorylation). MYLK2 is involved in multiple molecular functions as a result of various subdomains that participate in ATP binding, calmodulin binding, nucleotide binding, protein serine/threonine kinase activity and transferase activity).
Sequence	Full-length.
Applications	Kinase Assay, Western Blot.
Storage And Stability	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

GENE INFORMATION

Gene Name	MYLK2 myosin light chain kinase 2 [Homo sapiens]
Synonyms	MYLK2; myosin light chain kinase 2; KMLC; MLCK; MLCK2; skMLCK; OTTHUMP00000030561; myosin light chain kinase 2, skeletal muscle; EC 2.7.11.18; OTTHUMP00000030560; OTTHUMP00000030562; skeletal muscle myosin light chain kinase; skeletal myosin light chain kinase; Myosin light chain kinase 2, skeletal/cardiac muscle
Gene ID	85366
mRNA Refseq	NM_033118
Protein Refseq	NP_149109
MIM	606566
UniProt ID	Q9H1R3
Chromosome Location	20q13.31
Pathway	Calcium signaling pathway; Focal adhesion; Regulation of actin cytoskeleton; Vascular smooth muscle contraction
Function	ATP binding; calmodulin binding; calmodulin binding; calmodulin-dependent protein kinase activity; myosin light chain binding; myosin light chain kinase activity; myosin light chain kinase activity; nucleotide binding; transferase activity

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