

Active Recombinant Human MYLPF

Cat. No. MYLPF-574H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant HumanNon-Muscle Myosin-II Regulatory Light Chain was expressed in <i>E. Coli</i> .
Species	Human
Source	E.coli
Description	Non muscle Myosins are required for cytokinesis at the end of cell division, when a contractile ring near the plasmalemma divides the cytoplasm of the daughter cells, They are involved in cytoplasmic streaming movements in tissues, and especially in activation of motile cells such as fibroblasts and macrophages, Activation of non-muscle myosin-II is achieved by phosphorylation of Ser33 in the motif KKRPQRATSN by a dedicated, Ca ²⁺ Calmodulin regulated light chain kinase (MLCK).
Formulation	100μpurified human NMM protein at 0.2mg/ml in 20mM HEPES-KOH, pH7, 50mM NaCl, 1mM EDTA and 1mM DTT.
Application And Suggested Dilutions	ELISA • Inhibition Assays • Western Blotting.
Activity	Assayed for phosphorilation by MLCK.
Storage & Stability	Store vial at -20°C to -80°C. When stored at the recommended temperature, this protein is stable for 12 months.

 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	myosin light chain, phosphorylatable, fast skeletal muscle [Homo sapiens]
Synonyms	myosin light chain, phosphorylatable, fast skeletal muscle; MRLC2; MYL11; HUMMLC2B; MGC13450; DKFZp779C0757; MYLPF; myosin light chain 2; myosin regulatory light chain 2; fast skeletal myosin light chain 2; myosin, light chain 11, regulatory; MLC2B; Fast skeletal myosin light chain 2
Gene ID	29895
mRNA Refseq	NM_013292
Protein Refseq	NP_037424
UniProt ID	Q96A32
Chromosome Location	16p11.2
Pathway	Focal adhesion; Leukocyte transendothelial migration; Regulation of actin cytoskeleton; Tight junction
Function	structural constituent of muscle; calcium ion binding; motor activity

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