

Active Recombinant Human Myosin, Light Chain 12B, Regulatory

Cat. No. MYL12B-682H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MYL12 is produced in <i>E.coli</i> .
Species	Human
Source	<i>E.coli</i>
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	100μ purified human NMM protein at 0.2mg/ml in 20mM HEPES-KOH, pH7, 50mM NaCl, 1mM EDTA and 1mM DTT.
Application	ELISA, Inhibition Assays, Western Blotting.
Activity	Assayed for phosphorylation 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.

GENE INFORMATION

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Gene Name	MYL12B myosin, light chain 12B, regulatory [Homo sapiens]
Synonyms	MYL12B; myosin, light chain 12B, regulatory; OTTHUMP00000165808; myosin regulatory light chain 2; myosin regulatory light chain MRCL2; myosin regulatory light chain MRCL2
Gene ID	103910
mRNA Refseq	NM_001144944
Protein Refseq	NP_001138416
MIM	609211
UniProt ID	O14950
Chromosome Location	18p11.31
Pathway	Focal adhesion; Regulation of actin cytoskeleton; Leukocyte transendothelial migration; Tight junction; Axon guidance
Function	calcium ion binding; motor activity

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