

# Active Recombinant Human Myosin, Light Chain 12B, Regulatory

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

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human MYL12 is produced in <i>E.coli</i> .
<b>Species</b>	Human
<b>Source</b>	<i>E.coli</i>
<b>Description</b>	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 <sup>2+</sup> Calmodulin regulated light chain kinase (MLCK).
<b>Formulation</b>	100µ purified human NMM protein at 0.2mg/ml in 20mM HEPES-KOH, pH7, 50mM NaCl, 1mM EDTA and 1mM DTT.
<b>Application</b>	ELISA, Inhibition Assays, Western Blotting.
<b>Activity</b>	Assayed for phosphorylation by MLCK.
<b>Storage &amp; Stability</b>	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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<b>Gene Name</b>	MYL12B myosin, light chain 12B, regulatory [ Homo sapiens ]
<b>Synonyms</b>	MYL12B; myosin, light chain 12B, regulatory; OTTHUMP00000165808; myosin regulatory light chain 2; myosin regulatory light chain MRCL2; myosin regulatory light chain MRLC2
<b>Gene ID</b>	103910
<b>mRNA Refseq</b>	NM_001144944
<b>Protein Refseq</b>	NP_001138416
<b>MIM</b>	609211
<b>UniProt ID</b>	O14950
<b>Chromosome Location</b>	18p11.31
<b>Pathway</b>	Focal adhesion; Regulation of actin cytoskeleton; Leukocyte transendothelial migration; Tight junction; Axon guidance
<b>Function</b>	calcium ion binding; motor activity

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