

Recombinant Human Myosin, Light Chain 12A, Regulatory, Non-Sarcomeric

Cat. No. MYL12A-5458H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MYL12A is produced in E. coli.
Species	Human
Source	E.coli
Description	MYL12A is 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).
Form	Sterile filtered liquid in 20 mM HEPES-KOH, pH 7.0 + 50 mM NaCl + 1 mM EDTA + 1 mM DTT.
Concentration	0.5 mg/mL
storage	Stable for 1 year in working aliquots at -20°C to -80°C. Avoid repeated freeze-thaw cycles.
Official Symbol	MYL12A
Pathways	Focal adhesion; Focal adhesion; Leukocyte transendothelial migration; Regulation of

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actin cytoskeleton; Tightjunction

GENE INFORMATION

Gene Name	MYL12A myosin, light chain 12A,regulatory, non-sarcomeric [Homo sapiens]
Synonyms	MYL12A; myosin, light chain12A, regulatory, non-sarcomeric; MLCB; MRCL3; MRCL3; MYL2B; myosin regulatorylight chain 12A; MLC-2B; myosin RLC; OTTHUMP00000162243; myosin regulatorylight chain 3; myosin regulatory light chain MRCL3; myosin regulatory lightchain MRCL3; myosin regulatory light chain 2, nonsarcomeric; myosin, lightpolypeptide, regulatory, non-sarcomeric (20kD); RLC
Gene ID	10627
mRNA Refseq	NM_006471
Protein Refseq	NP_006462
UniProt ID	P19105
Chromosome Location	18p11.31
Function	calcium ion binding; glutamatereceptor binding

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