

## MYL12B Human

**Description:** MYL12B Human Recombinant produced in E. coli is a single polypeptide chain containing 196 amino acids (1-172) and having a molecular mass of 22.3kDa. MYL12B is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Catalog #:** PRPS-1131

For research use only.

**Synonyms:** Myosin light chain 12B regulatory, Myosin regulatory light chain 2-B smooth muscle isoform, Myosin regulatory light chain 20 kDa, Myosin regulatory light chain MRLC2, MYLC2B, MRLC2, MLC-2A, MLC-B, SHUJUN-1 MLC20.

**Source:** E.coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MGSHMSSKKA KTKTTKKRPQ  
RATSNVFAMF DQSQIQEFKE AFNMIDQNRD GFIDKEDLHD MLASLGKNPT DAYLDAMMNE  
APGPINFMTF LTMFGEKLNG TDPEDVIRNA FACFDEEATG TIQEDYLREL LTTMGDRFTD  
EEVDLYREA PIDKKGNFNY IEFTRILKHG AKDKDD

**Purity:** Greater than 90% as determined by SDS-PAGE.

**Formulation:**

The MYL12B solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 200mM NaCl, 2mM DTT and 40% glycerol.

**Stability:**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

Myosin is composed of 2 nonphosphorylatable alkali light chains, 2 heavy chains and 2 phosphorylatable regulatory light chains. MYL12B is a hexameric ATPase cellular motor protein which controls contraction in smooth muscle and non-muscle cells through phosphorylation by myosin light chain kinase (MLCK). Phosphorylation of myosin regulatory light chains catalyzed by MLCK in the presence of calcium and calmodulin, rises Actin-activated myosin ATPase activity, thus regulating contractile activity.

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