

MYL12B recombinant protein

MYL12B, 1-172aa, Human, His tag, E Coli

CATALOG # AAA48752	HOST E Coli	APPLICATIONS SDS-Page
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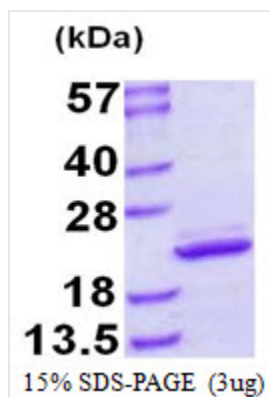
PRODUCT SYNONYMS

MYL12B; 1-172aa; Human; His tag; E Coli; Myosin light chain 12B regulatory; Myosin; light chain 12B regulatory; MLC-B; MRLC2; MYL12B recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 90% by SDS-PAGE
Form/Format	Liquid. In 20mM Tris-HCl Buffer (pH 8.0) containing 0.2M NaCl, 40% glycerol, 2mM DTT
Concentration	1 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MGSSHHHHH SSGLVPRGSH MGSMMSSKKA KTKTTKKRPQ RATSNVFAMF DQSQIQEFKE AFNMIDQNRD GFIDKEDLHD MLASLGKNPT DAYLDAMMNE APGPINFMTF LTMFGEKLNG TDPEDVIRNA FACFDEEATG TIQEDYLREL LTTMGDRFTD EEVDELYREA PIDKKGNFNY IEFTRILKHG AKDKDD
Sequence Length	172
Applicable Applications for MYL12B recombinant protein	SDS-PAGE
Antigen Species	Human
Tag Information	His-tag
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for MYL12B recombinant protein	Myosin, light chain 12B, regulatory, also known as MYL12B, is a hexameric ATPase cellular motor protein. Myosin is composed of two heavy chains, two nonphosphorylatable alkali light chains, and two phosphorylatable regulatory light chains. MYL12B regulates contraction in smooth muscle and non-muscle cells via phosphorylation by myosin light chain kinase (MLCK). Phosphorylation of myosin regulatory light chains, catalyzed by MLCK in the presence of calcium and calmodulin, increases Actin-activated myosin ATPase activity, thereby regulating contractile activity. Recombinant human MYL12B protein, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography techniques.
Product Categories/Family for MYL12B recombinant protein	Actin & Myosin Related
References	Kumar C C., et al. (1989) Biochemistry. 28:4027-4035.; Kolodney M S., et al. (1999) J Physiol. 515: 87-92.

NCBI AND UNIPROT INFORMATION

NCBI GI #	222144326
NCBI GeneID	103910
NCBI Accession #	NP_001138417
NCBI GenBank Nucleotide #	NM_001144945.1
UniProt Accession #	O14950 ; Q13182 ; Q7Z5Z4 ; D3DUH6
Molecular Weight	22.3 kDa (196aa) confirmed by MALDI-TOF
NCBI Official Full Name	myosin regulatory light chain 12B
NCBI Official Synonym Full Names	myosin light chain 12B
NCBI Official Symbol	MYL12B
NCBI Official Synonym Symbols	MLC-B; MRLC2
NCBI Protein Information	myosin regulatory light chain 12B
UniProt Protein Name	Myosin regulatory light chain 12B
UniProt Gene Name	MYL12B
UniProt Synonym Gene Names	MRLC2; MYLC2B; MLC-2; MLC20

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.