

Myosin regulatory light chain 12B (MYL12B) Active Protein | MYL12B active protein

Recombinant Human Myosin regulatory light chain 12B (MYL12B)(Active)

CATALOG #
AAA279222

HOST
E Coli

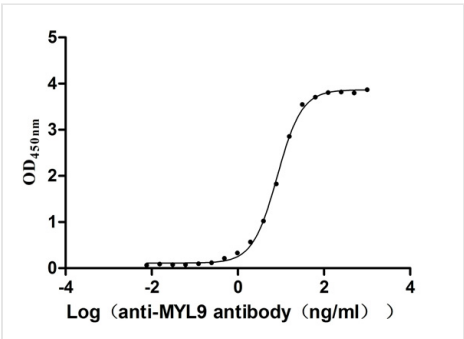
PRODUCT SYNONYMS

Myosin regulatory light chain 12B (MYL12B); Recombinant Human Myosin regulatory light chain 12B (MYL12B)(Active); MRLC2; MYLC2B; MYL12B active protein

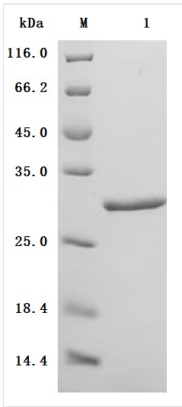
PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95% as determined by SDS-PAGE.
Form/Format	Lyophilized powder Lyophilized from a 0.2 um filtered PBS, 6% Trehalose, pH 7.4
Sequence Positions	1-172aa; Full Length
Sequence	MSSKKAKTKT TKRPQRATS NVFAMFDQSQ IQEFKEAFNM IDQNRDGFID KEDLHDMLAS LGKNPTDAYL DAMMNEAPGP INFTMFLTMF GEKLN GTDPE DVIRNAFACF DEEATGTIQE DYLRRELLTTM GDRFTDEEVD ELYREAPIDK KGNFN YIEFT RILKHGAKDK DD\$
Species	Homo sapiens (Human)
Tag	C-terminal 6xHis-tagged
Endotoxin	Less than 1.0 EU/ug as determined by LAL method.
Research Area	Cancer
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Human MYL12B at 2 ug/mL can bind Anti-MYL9 recombinant antibody. The EC50 is 7.760-8.646 ng/mL.
Preparation and Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 degree C/-80 degree C. The shelf life of lyophilized form is 12 months at -20 degree C/-80 degree C. Repeated freezing and thawing is not recommended. Store working aliquots at 4 degree C for up to one week. We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20 degree C/-80 degree C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

IMAGES



Bioactivity
Measured by its binding ability in a functional ELISA. Immobilized Human MYL12B at 2?g/mL can bind Anti-MYL9 recombinant antibody, the EC50 is 7.760-8.646 ng/mL.



SDS-PAGE
Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

ADDITIONAL INFORMATION

Related Product Information for MYL12B active protein	Myosin regulatory subunit that plays an important role in regulation of both smooth muscle and nonmuscle cell contractile activity via its phosphorylation. Phosphorylation triggers actin polymerization in vascular smooth muscle. Implicated in cytokinesis, receptor capping, and cell locomotion.
Product Categories/Family for MYL12B active protein	Active Protein & In Stock Protein
References	"Diphosphorylated MRLC is required for organization of stress fibers in interphase cells and the contractile ring in dividing cells."Iwasaki T., Murata-Hori M., Ishitobi S., Hosoya H.Cell Struct. Funct. 26:677-683 (2001)

NCBI AND UNIPROT INFORMATION

NCBI GI #	205829213
NCBI GeneID	103910
UniProt Accession #	O14950; Q13182; Q7Z5Z4; D3DUH6
Molecular Weight	172
NCBI Official Full Name	Myosin regulatory light chain 12B
NCBI Official Synonym Full Names	myosin, light chain 12B, regulatory
NCBI Official Symbol	MYL12B
NCBI Official Synonym Symbols	MLC-B; MRLC2
NCBI Protein Information	myosin regulatory light chain 12B; MLC-2; MLC20; MLC-2A; SHUJUN-1; myosin regulatory light chain 2; myosin regulatory light chain MRLC2; myosin regulatory light chain 20 kDa; myosin regulatory light chain 2-B, smooth muscle isoform
UniProt Protein Name	Myosin regulatory light chain 12B
UniProt Gene Name	MYL12B
UniProt Synonym Gene Names	MRLC2; MYLC2B; MLC-2; MLC20
UniProt Entry Name	ML12B_HUMAN

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.

