

Myosin regulatory light chain 12A (MYL12A) Active Protein | MYL12A active protein

Recombinant Human Myosin regulatory light chain 12A (MYL12A)(Active)

CATALOG #
AAA279221

HOST
E Coli

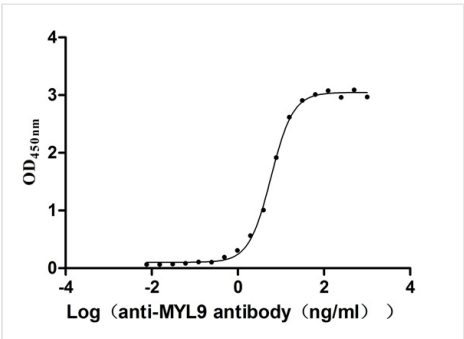
PRODUCT SYNONYMS

Myosin regulatory light chain 12A (MYL12A); Recombinant Human Myosin regulatory light chain 12A (MYL12A)(Active); MLCB; MRLC3; RLC; MYL12A active protein

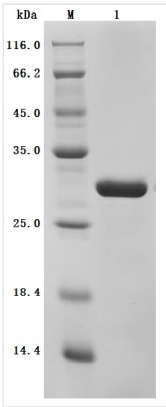
PRODUCT SPECIFICATIONS

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	1-171aa; Full Length
Sequence	MSSKRTKTKT KKR PQRATSN VFAMFDQSQI QEFKEAFNMI DQNRDGFIDK EDLHDM LASL GKNPTDEYLD AMMNEAPGPI NFTMFLTMFG EKLNGTDPED VIRNAFACFD EEATGTIQED YLRELLTTMG DRFTDEEVDE LYREAPIDKK GNFN YIEFTR ILKHGAKDKD D\$
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 MYL12A at 2 ug/mL can bind Anti-MYL9 recombinant antibody. The EC50 is 5.325-6.456 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 MYL12A at 2?g/mL can bind Anti-MYL9 recombinant antibody, the EC50 is 5.325-6.456 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 MYL12A active protein	Myosin regulatory subunit that plays an important role in regulation of both smooth muscle and nonmuscle cell contractile activity via its phosphorylation. Implicated in cytokinesis, receptor capping, and cell locomotion.
Product Categories/Family for MYL12A 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)"The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC)."The MGC Project Team.Genome Res. 14:2121-2127 (2004)"Isoforms of myosin and actin in human, monkey and rat myometrium. Comparison of pregnant and non-pregnant uterus proteins."Cavaille F., Janmot C., Ropert S., d'Albis A.Eur J Biochem 160:507-513 (1986)

NCBI AND UNIPROT INFORMATION

NCBI GI #	127169
NCBI GeneID	10627
UniProt Accession #	P19105; Q53X45
Molecular Weight	171
NCBI Official Full Name	Myosin regulatory light chain 12A
NCBI Official Synonym Full Names	myosin, light chain 12A, regulatory, non-sarcomeric
NCBI Official Symbol	MYL12A
NCBI Official Synonym Symbols	MLCB; MRCL3; MRLC3; MYL2B; MLC-2B; HEL-S-24
NCBI Protein Information	myosin regulatory light chain 12A; myosin RLC; myosin regulatory light chain 3; epididymis secretory protein Li 24; myosin regulatory light chain MRLC3; myosin regulatory light chain 2, nonsarcomeric; myosin, light polypeptide, regulatory, non-sarcomeric
UniProt Protein Name	Myosin regulatory light chain 12A
UniProt Gene Name	MYL12A
UniProt Synonym Gene Names	MLCB; MRLC3; RLC; HEL-S-24
UniProt Entry Name	ML12A_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/myosin-regulatory-light-chain-12a-myl12a/279221>