

Recombinant Human MYL12A, His-tagged

Cat. No. MYL12A-28634TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human MRCL3 (amino acids 1-171) with a N terminal His tag. 195 amino acids with a predicted MWt 22.4 kDa including tag.
Species	Human
Source	E.coli
ProteinLength	171 amino acids
Description	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.
Conjugation	HIS
Molecular Weight	22.400kDa inclusive of tags
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	pH: 8.00 Constituents: 0.32% Tris HCl, 20% Glycerol, 0.02% DTT
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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Sequences of amino acids

MGSSHHHHHSSGLVPRGSHMGSHMSSKRTKTKKKRPQR ATSNVFAMFDQSQI
 QEFKEAFNMIDQNRDGFIDKEDLH DMLASLGKNPTDEYLDAMMNEAPGPINFTMFL
 TMFGEKLN GTDPEDVIRNAFACFDEEATGTIQEDYLRELLTTMGDR FTDEEVDELY
 REAPIDKKGNFNYIEFTRILKHGAKDKDD

Sequence Similarities

Contains 3 EF-hand domains.

GENE INFORMATION

Gene Name MYL12A myosin, light chain 12A, regulatory, non-sarcomeric [Homo sapiens]

Official Symbol MYL12A

Synonyms MYL12A; myosin, light chain 12A, regulatory, non-sarcomeric; myosin, light polypeptide, regulatory, non sarcomeric (20kD); myosin regulatory light chain 12A; MLCB; MRCL3; MRLC3; MYL2B; myosin regulatory light chain 3;

Gene ID 10627

mRNA Refseq NM_006471

Protein Refseq NP_006462

Uniprot ID P19105

Chromosome Location 18p11.31

Pathway Focal adhesion, organism-specific biosystem; Focal adhesion, conserved biosystem; Leukocyte transendothelial migration, organism-specific biosystem; Leukocyte transendothelial migration, conserved biosystem; Regulation of actin cytoskeleton,

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organism-specific biosystem;

Function

calcium ion binding; glutamate receptor binding;

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