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: 8.00Constituents: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.

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Sequences of amino acids	MGSSHHHHHHSSGLVPRGSHMGSHMSSKRTKTKTKKRPQR 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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