

## Recombinant Human MYL12A Protein, His-tagged

**Cat. No.** MYL12A-5536H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| <b>Product Overview</b> | Human MRCL3 (NP_006462, 1 a.a. - 171 a.a. ) full-length recombinant protein with His tag expressed in Escherichia coli.                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>      | This gene encodes a nonsarcomeric myosin regulatory light chain. This protein is activated by phosphorylation and regulates smooth muscle and non-muscle cell contraction. This protein may also be involved in DNA damage repair by sequestering the transcriptional regulator apoptosis-antagonizing transcription factor (AATF)/Che-1 which functions as a repressor of p53-driven apoptosis. Alternate splicing results in multiple transcript variants. A pseudogene of this gene is found on chromosome 8.[provided by RefSeq, Dec 2014] |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Molecular Mass</b>   | 22.4 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>AA Sequence</b>      | MGSSHHHHHHSSGLVPRGSHMGSHMSSKRTKTKTKRKPQRATSNVFAMFDQSQI<br>QEFKEAFNMIDQNRDGFIDKEDLHDMLASLGKNPTDEYLDAMMNEAPGPINFTMFLT<br>MFGEKLNGTDPEDVIRNAFACFDEEATGTIQEDYLRELLTTMGDRFTDEEVDELYRE<br>APIDKKGNFNYIEFTRILKHGAKDKDD                                                                                                                                                                                                                                                                                                                                |
| <b>Purity</b>           | > 90% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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| <b>Applications</b>     | SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage</b>          | Store at 4 centigrade for 1-2 weeks. For long term storage store at -20 centigrade or -80 centigrade. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                                                                                   |
| <b>Concentration</b>    | 0.25 mg/mL                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Storage Buffer</b>   | In 20 mM Tris-HCl, pH 8.0 (20% glycerol, 1 mM dithiothreitol)                                                                                                                                                                                                                                                                                                                                           |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Gene Name</b>        | MYL12A myosin light chain 12A [ Homo sapiens (human) ]                                                                                                                                                                                                                                                                                                                                                  |
| <b>Official Symbol</b>  | MYL12A                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Synonyms</b>         | MYL12A; myosin light chain 12A; MLCB; MRCL3; MRLC3; MYL2B; MLC-2B; HEL-S-24; myosin regulatory light chain 12A; epididymis secretory protein Li 24; myosin RLC; myosin regulatory light chain 2, nonsarcomeric; myosin regulatory light chain 3; myosin regulatory light chain MRCL3; myosin, light chain 12A, regulatory, non-sarcomeric; myosin, light polypeptide, regulatory, non-sarcomeric (20kD) |
| <b>Gene ID</b>          | 10627                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>mRNA Refseq</b>      | NM_001303047                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Protein Refseq</b>   | NP_001289976                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>UniProt ID</b>       | P19105                                                                                                                                                                                                                                                                                                                                                                                                  |