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Recombinant Human Non-Muscle Myosin II Regulatory Light Chain (rHuNMM)

CLPRO366
CLPRO366-2
LOT:

Description: Non muscle Myosins are required for cytokinesis at the end of cell division, when a contractile ring near the plasmalemma divides the cytoplasm of the daughter cells, They are involved in cytoplasmic streaming movements in tissues, and especially in activation of motile cells such as fibroblasts and macrophages, Activation of non-muscle myosin-II is achieved by phosphorylation of Ser³³ in the motif KKRPRQATS^N by a dedicated, Ca⁺² Calmodulin regulated light chain kinase (MLCK).

Source: *Escherichia Coli*.

Formulation: 2µg (CLPRO366) or 10µg (CLPRO366-2) purified human NMM protein in 20mM HEPES-KOH, pH7, 50mM NaCl, 1mM EDTA and 1mM DTT.

Storage and Stability: Store vial at -20°C to -80°C. When stored at the recommended temperature, this protein is stable for 12 months.

Applications: ELISA, Inhibition Assays, Western Blotting

Activity: Assayed for phosphorylation by MLCK.

Gene: Name: MRLC2
Synonyms: MLC-2

Protein synonyms: Myosin regulatory light chain (Myosin regulatory light chain MRCL2)
(Non-muscle myosin light chain 2)

Protein Domains: IPR002048 Calcium-binding EF-hand

Continued Overleaf...

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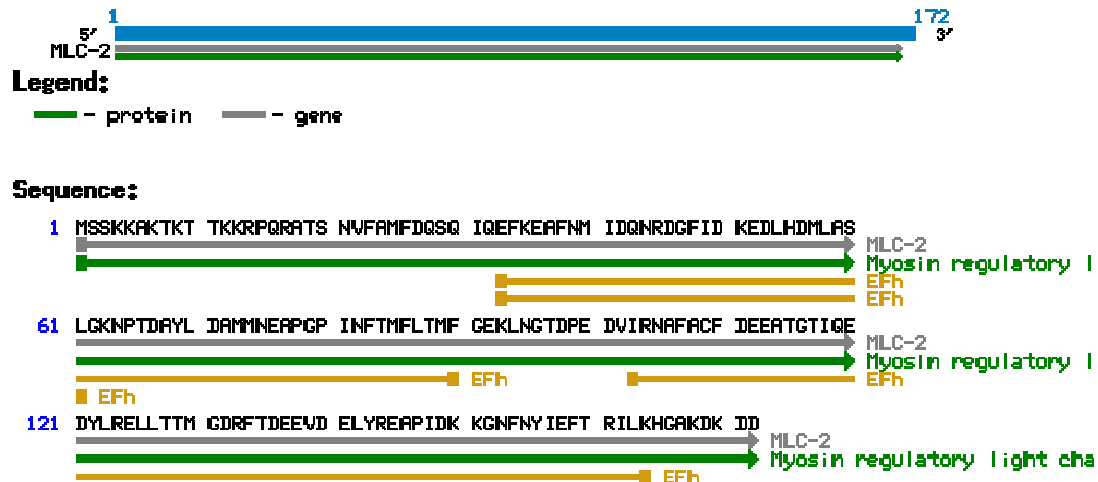
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Precursor-Protein Structure and amino acid sequence:



References:

1. Implication of phosphorylation of the myosin II regulatory light chain in insulin-stimulated GLUT4 translocation in 3T3-F442A adipocytes.

Exp Mol Med 2006 Apr 30;38(2):180-9

2. Myosin phosphatase and cofilin mediate cAMP/cAMP-dependent protein kinase-induced decline in endothelial cell isometric tension and myosin II regulatory light chain phosphorylation.

J Biol Chem 2005 Sep 23;280(38):33083-95

3. Myosin II regulatory light chain is required for trafficking of bile salt export protein to the apical membrane in Madin-Darby canine kidney cells. J Biol Chem 2005 Jun 24;280(25):23741-7

4. Tea catechin, epigallocatechin-3-gallate suppresses myosin II regulatory light chain phosphorylation.

Biofactors 2004;21(1-4):387-9

5. Adenosine induces dephosphorylation of myosin II regulatory light chain in cultured bovine corneal endothelial cells.

Exp Eye Res 2004 Oct;79(4):543-51

6. Real-time imaging of myosin II regulatory light-chain phosphorylation using a new protein biosensor.

Biochem J 2005 Jan 15;385(Pt 2):589-94

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