

Recombinant Mouse Myosin, Light Polypeptide 9, Regulatory, GST-tagged

Cat. No. Myl9-1468M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length mouse LC20 was expressed in <i>E. coli</i> cells using an N-terminal GST tag. MW = 45kDa.
Species	Mouse
Source	E.coli
Description	LC20 is the myosin light chain that may regulate muscle contraction by modulating the ATPase activity of myosin heads. LC20 protein binds calcium and is activated by myosin light chain kinase. Two transcript variants encoding different isoforms have been found for LC20 and the deduced 172-amino acid protein is highly conserved, with only 3 differences between the human and chicken proteins. Light chain phosphorylation causes the folded monomeric form of myosin to extend and assemble into filaments. This observation established the involvement of the LC20 in conformational transitions of smooth muscle myosin.
Sequence	Full-length.
Applications	Kinase Assay, Western Blot.
Storage And Stability	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

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

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

 45-1 Ramsey Road, Shirley, NY 11967, USA

GENE INFORMATION

Gene Name	MyI9 myosin, light polypeptide 9, regulatory [Mus musculus]
Synonyms	MyI9; myosin, light polypeptide 9, regulatory; MLC20; RLC-C; Mylc2c; AI327049
Gene ID	98932
mRNA Refseq	NM_172118
Protein Refseq	NP_742116
UniProt ID	Q9CQ19
Chromosome Location	2
Pathway	Focal adhesion; Leukocyte transendothelial migration; Regulation of actin cytoskeleton; Tight junction; Vascular smooth muscle contraction
Function	calcium ion binding; motor activity

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