

Datasheet for 010-001-S38**LC20 protein-GST fusion****Overview**

Description:	LC20 recombinant protein-GST fusion protein - 010-001-S38
Item No.:	010-001-S38
Size:	50 µg
Origin:	Mouse
Expressed in:	E. coli

Product Details

Background:	LC20 is the myosin light chain that may regulate muscle contraction by modulating the ATPase activity of myosin heads (1). 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 (2). LC20 Protein is ideal for investigators involved in Signaling Reagents, Protein Substrates, and Cardiovascular Disease research.
Synonyms:	MYL9, MGC3505, MLC2, MRLC1, MYRL2, Myosin regulatory light polypeptide 9, Myosin regulatory light chain 2, smooth muscle isoform, Myosin regulatory light chain 9
Species of Origin:	Mouse
Expressed in:	E. coli
Type:	Recombinant Protein

Target Details

Gene Name:	Myl9
Purity/Specificity:	Recombinant full-length mouse LC20 was expressed in E. coli cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >95% by densitometry.
Relevant Links:	<ul style="list-style-type: none">• NCBI - BC055439

Application Details

Application Note:	LC20 Protein is stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol. LC20 Protein is suitable for use in Western Blot and Kinase Assay. Expect a band approximately ~45kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	User Optimized

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	0.2 µg/µL
Buffer:	See application note.

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	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.
Expiration:	Expiration date is one (1) year from date of receipt.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.

