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[Marker Primary Antibody]

Rabbit Anti-phospho-MYL12B (Thr19 + Ser20)/FITC Conjugated antibody

Catalog Number: SL8311R-FITC

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-phospho-MYL12B (Thr19 + Ser20)/FITC
Immunogen:	KLH conjugated synthesised phosphopeptide derived from human Mylc2b around the phosphorylation site of Thr19 + Ser20
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	ICC/IF=1:50-200 IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted:Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Danio)
Background:	background: The activity of nonmuscle myosin II (see MYH9; MIM 160775) is regulated by phosphorylation of a regulatory light chain, such as MRLC2. This phosphorylation results in higher MgATPase activity and the assembly of myosin II filaments (Iwasaki et al., 2001 [PubMed 11942626]).[supplied by OMIM, Mar 2008] **Function:** Myosin regulatory subunit that plays an important role in regulation of both smooth muscle and nonmuscle cell contractile activity via its phosphorylation. Phosphorylation triggers actin polymerization in vascular smooth muscle. Implicated in cytokinesis, receptor capping, and cell locomotion. **Tissue Specificity:** Ubiquitously expressed in various hematopoietic cells. **Post-translational modifications:** Phosphorylation increases the actin-activated myosin ATPase activity and thereby regulates the contractile activity.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

	It is required to generate the driving force in the migration of the cells but not necessary for localization of myosin-2 at the leading edge. Phosphorylation is reduced following epigallocatechin-3-O-gallate treatment. **Similarity:** Contains 3 EF-hand domains. **Database links:** **Entrez Gene:** 614055 Cow **Entrez Gene:** 103910 Human **Entrez Gene:** 67938 Mouse **Entrez Gene:** 50685 Rat Omim: 609211 Human **SwissProt:** A4IF97 Cow **SwissProt:** O14950 Human **SwissProt:** Q3THE2 Mouse **SwissProt:** P18666 Rat **Unigene:** 190086 Human **Unigene:** 464472 Human **Unigene:** 261329 Mouse **Unigene:** 485011 Mouse **Unigene:** 214633 Rat Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.