# ANTIBODIES ONLINE

## Datasheet for ABIN5596872 anti-MYL12A antibody (N-Term)

2 Images



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### Overview

Quantity:	100 µL
Target:	MYL12A
Binding Specificity:	N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunoprecipitation (IP)

### Product Details

Myosin phospho S19/phospho S20 Antibody
Immunogen: Human Myosin Light Chain phospho peptide corresponding to a region near the amino terminus of the human smooth/non-muscle form of myosin regulatory light chain conjugated to Keyhole Limpet Hemocyanin (KLH). Immunogen Type: Conjugated Peptide
This antiserum is phosphospecific and detects monophosphorylated and diphosphorylated forms of the protein.
Synonyms: rabbit anti-Myosin pS19/pS20 Antibody, Myosin regulatory light chain 12A, Myosin regulatory light chain MRLC3, Myosin regulatory light chain 2, nonsarcomeric, Myosin RLC, MLC-2B
Anti-Myosin pS19/pS20 antibody is directed against the regulatory light chain of smooth and non-muscle myosin.

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### Product Details

Sterility:

Sterile filtered

## Target Details

Target:	MYL12A
Alternative Name:	MYL12A (MYL12A Products)
Background:	<ul> <li>Background: Myosin is the major component of thick muscle filaments, and is a long asymmetric molecule containing a globular head and a long tail. The molecule consists of two heavy chains each ~200,000 daltons, and four light chains each ~16,000 - 21,000 daltons.</li> <li>Activation of smooth and cardiac muscle primarily involves pathways that increase calcium levels and myosin phosphorylation, resulting in contraction. Myosin light chain phosphatase acts to regulate muscle contraction by dephosphorylating activated myosin light chain. This</li> </ul>
	acts to regulate muscle contraction by dephosphorylating activated myosin light chain. This antibody is specific for the phosphorylated form of myosin light chain. The selected peptide sequence used to generate the polyclonal antibody is located near the amino terminal end of the polypeptide corresponding to the smooth/non-muscle form of myosin regulatory light chain found in cardiac myocytes in addition to smooth and non-muscle cells. This sequence differs from that of the sarcomeric/cardiac form of myosin regulatory light chain that has a different sequence around the phosphorylation site. Human and mouse have almost identical sequences. In human the phosphorylation site is pS19, while in mouse the site maps to pS20.
Gene ID:	10627
UniProt:	P19105

## Application Details

Application Notes:	Immunohistochemistry Dilution: 2.5 µg/mL
	Application Note: Anti-Myosin pS19/pS20 phospho specific polyclonal antibody was tested by
	ELISA and immunoblotting. Immunoblotting was used to show reactivity with unstimulated
	and stimulated cardiac myocytes. The antibody was also reactive with the phosphorylated
	form of the immunizing peptide and minimally reactive with the non-phosphorylated form of the
	immunizing peptide. Although not tested, this antibody is likely functional by
	immunohistochemistry and immunoprecipitation.
	Western Blot Dilution: 1:1,000 - 1:5,000
	Immunoprecipitation Dilution: 1:100
	ELISA Dilution: 1:5,000 - 1:20,000
	Other: User Optimized

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### Application Details

#### Restrictions:

For Research Use only

### Handling

Format:	Liquid
Concentration:	70 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months

### Images



#### Western Blotting

**Image 1.** Western Blot of Rabbit Anti-Myosin pS19/pS20 antibody. Lane 1: HeLa whole cell lysate. Lane 2: HeLa whole cell lysate + smooth muscle recombinant phospho protein. Lane 3: HeLa whole cell lysate + regulatory light chain recombinant phospho protein. Load: 10 ug of whole cell lysate + 1.0 ug of recombinant protein. Primary antibody: Mysoin pS19/pS20 antibody at 1.0 ug/mL overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:40,000 for 30 min at RT. Blocking: ABIN925618 for 30 min at RT. Predicted/Observed size: 20 kDa, 20 kDa for RLC.



#### Western Blotting

**Image 2.** Western Blot of Rabbit Anti-Myosin pS19/pS20 antibody. Lane 1: Smooth muscle recombinant nonphospho protein. Lane 2: Smooth muscle recombinant phospho protein. Lane 3: Regulatory light chain recombinant non-phospho protein. Lane 4: Regulatory light chain recombinant phospho protein. Load: 1.0 ug of recombinant non-phospho protein, 5.0 ug of recombinant phospho protein. Primary antibody: Mysoin pS19/pS20 antibody at 1.0 ug/mL overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:40,000 for 30 min at RT. Blocking: ABIN925618 for 30 min at RT. Predicted/Observed size: 20 kDa, 20 kDa for RLC.

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