

**Myosin Light Chain2**  
**Rabbit Monoclonal antibody(Mab)**  
**Catalog # AD80100****Specification**

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**Myosin Light Chain2 - Product info**

Application	IHC-P, IHC
Primary Accession	<a href="#">P10916</a>
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal
Calculated MW	18789

**Myosin Light Chain2 - Additional info**

Gene ID	4633
Gene Name	MYL2 ( <a href="#">HGNC:7583</a> )

**Other Names**

Myosin regulatory light chain 2, ventricular/cardiac muscle isoform, MLC-2, Ventricular myosin light chain 2, MYL2 ([http://www.genenames.org/cgi-bin/gene\\_symbol\\_report?hgnc\\_id=7583](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=7583))

**Dilution**

IHC-P~~Ready-to-use

IHC~~Ready-to-use

**Storage**

Maintain refrigerated at 2-8°C

**Precautions**

**Myosin Light Chain2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.**

**Myosin Light Chain2 - Protein Information**

**Name** MYL2 ([HGNC:7583](#))

**Function**

**Contractile protein that plays a role in heart development and function (By similarity). Following phosphorylation, plays a role in cross-bridge cycling kinetics and cardiac muscle contraction by increasing myosin lever arm stiffness and promoting myosin head diffusion; as a consequence of the increase in maximum contraction force and calcium sensitivity of contraction force. These events altogether slow down myosin kinetics and prolong duty cycle resulting in accumulated**

myosins being cooperatively recruited to actin binding sites to sustain thin filament activation as a means to fine-tune myofilament calcium sensitivity to force (By similarity). During cardiogenesis plays an early role in cardiac contractility by promoting cardiac myofibril assembly (By similarity).

Cellular Location

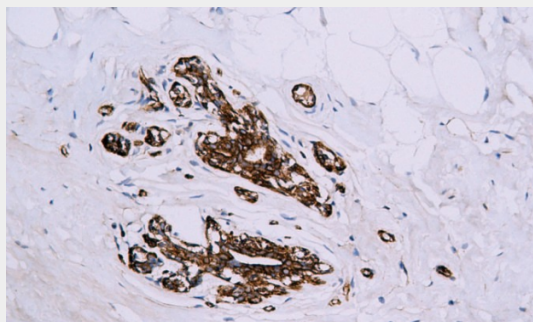
Cytoplasm, myofibril, sarcomere, A band  
{ECO:0000250|UniProtKB:P08733}

## Myosin Light Chain2 - Protocols

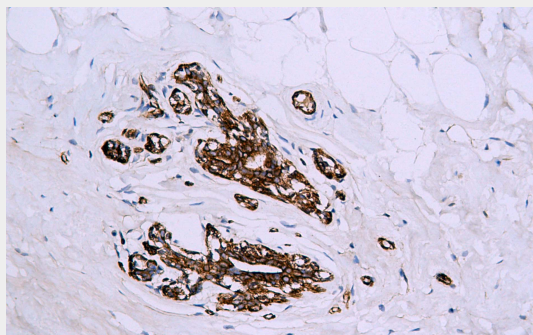
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Myosin Light Chain2 - Images



Normal breast tissues



Immunohistochemical analysis of paraffin-embedded human normal breast tissue using AD80100 performed on the Abcarta® FAIP-30 Fully automated IHC platform. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a Citrate buffer (pH6. 0). Samples were incubated with primary antibody(Ready-to-use) for 15 min at room temperature. AmpSee™ Detection Systems [Abcepta:AR005] was used as the secondary

antibody.