

**MYO18B Antibody**  
**Purified Mouse Monoclonal Antibody (Mab)**  
**Catalog # AM8558b**

**Specification**

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**MYO18B Antibody - Product Information**

Application	WB, IHC-P, FC,E
Primary Accession	<a href="#">Q8IUG5</a>
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG2b,k

**MYO18B Antibody - Additional Information**

**Gene ID** 84700

**Other Names**

Unconventional myosin-XVIIIb, MYO18B

**Target/Specificity**

This MYO18B antibody is generated from a mouse immunized with recombinant protein from human MYO18B.

**Dilution**

WB~~1:16000

IHC-P~~1:25

FC~~1:25

**Format**

Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

MYO18B Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**MYO18B Antibody - Protein Information**

**Name** MYO18B

**Function** May be involved in intracellular trafficking of the muscle cell when in the cytoplasm, whereas entering the nucleus, may be involved in the regulation of muscle specific genes. May play a role in the control of tumor development and progression; restored MYO18B expression in lung cancer cells suppresses anchorage-independent growth.

### Cellular Location

Cytoplasm. Nucleus. Cytoplasm, myofibril, sarcomere. Note=Punctate pattern in undifferentiated myoblasts Nuclear, on primary cardiomyocytes and adult muscle. A partial sarcomeric location was found in some cardiomyocytes

### Tissue Location

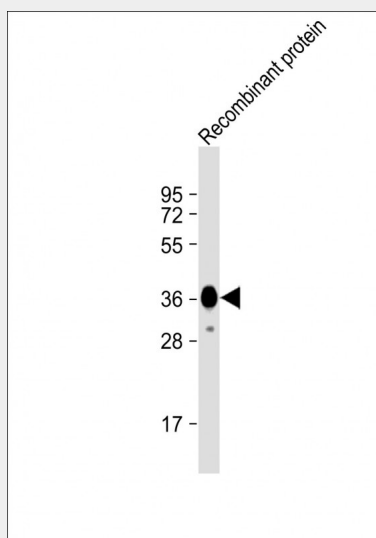
Selectively expressed in cardiac and skeletal muscles. Weakly expressed in testis, pancreas, placenta, prostate, lung and thymus

### MYO18B Antibody - Protocols

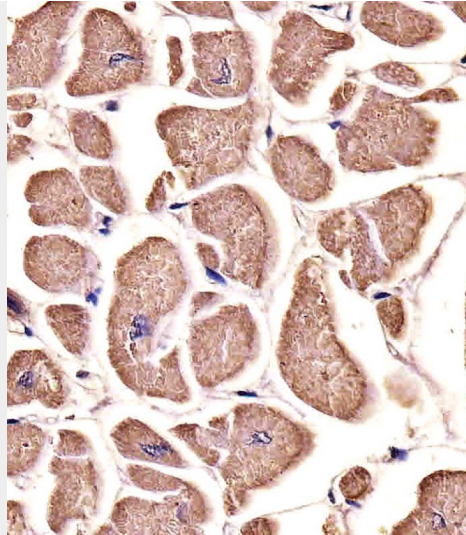
Provided below are standard protocols that you may find useful for product applications.

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

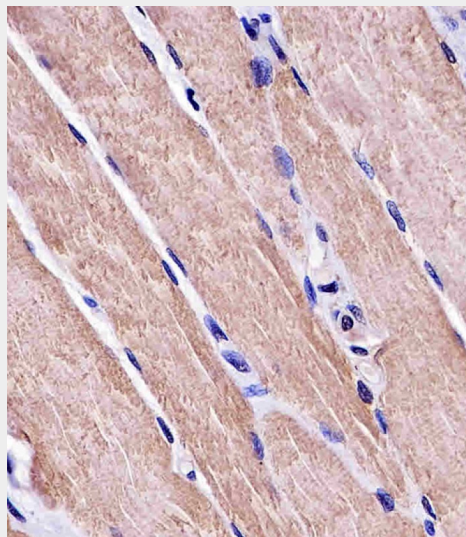
### MYO18B Antibody - Images



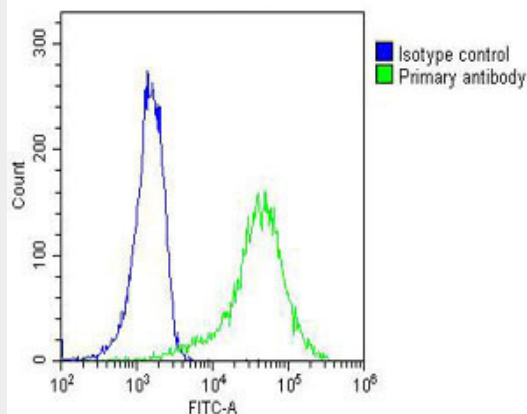
Anti-MYO18B Antibody at 1:16000 dilution + Recombinant protein fragment (36 kDa) at 20  $\mu$ g per lane. Secondary Goat Anti-Mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Blocking/Dilution buffer: 5% NFDM/TBST.



AM8558b staining MYO18B in human heart tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hour at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



AM8558b staining MYO18B in human skeletal muscle tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hour at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



Overlay histogram showing A431 cells stained with AM8558b(green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AM8558b, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Mouse IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(OJ192088) at 1/200 dilution for 40 min at 37°C. Isotype control antibody (blue line) was mouse IgG2b (1µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >10,000 events was performed.

#### **MYO18B Antibody - Background**

May be involved in intracellular trafficking of the muscle cell when in the cytoplasm, whereas entering the nucleus, may be involved in the regulation of muscle specific genes. May play a role in the control of tumor development and progression; restored MYO18B expression in lung cancer cells suppresses anchorage-independent growth.

#### **MYO18B Antibody - References**

- Nishioka M.,et al.Proc. Natl. Acad. Sci. U.S.A. 99:12269-12274(2002).
- Salamon M.,et al.J. Mol. Biol. 326:137-149(2003).
- Gu Y.,et al.Submitted (JAN-2002) to the EMBL/GenBank/DDBJ databases.
- Dunham I.,et al.Nature 402:489-495(1999).
- Stanchi F.,et al.Submitted (FEB-2000) to the EMBL/GenBank/DDBJ databases.