10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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

Specification

MYO18B Antibody - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	Q8IUG5
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
E~~Use at an assay dependent concentration.

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

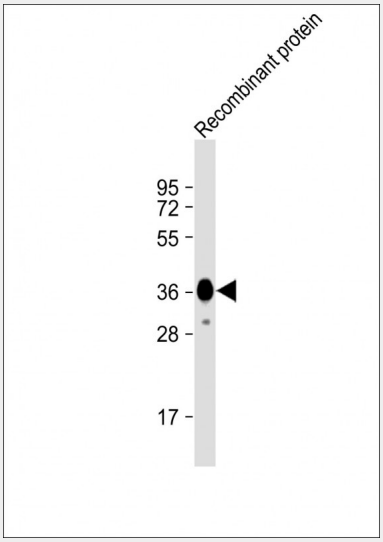
Tissue Location
Selectively expressed in cardiac and skeletal muscles. Weakly expressed in testis, pancreas, placenta, prostate, lung and thymus

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 Cytomety
- Cell Culture

MYO18B Antibody - Images



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

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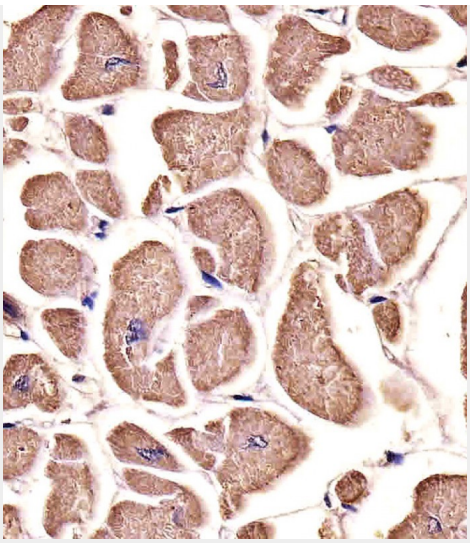
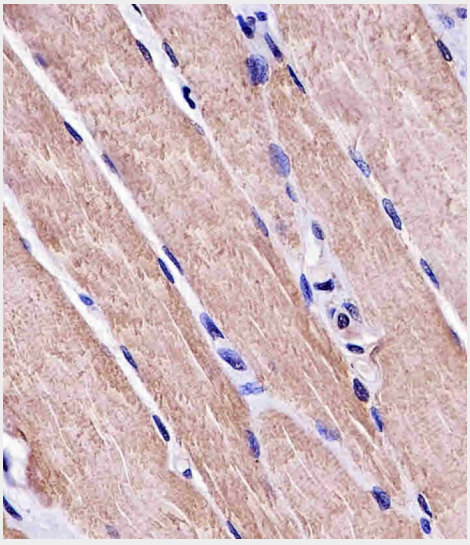


AM8558b staining MYO18B in human heart tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0. 5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours 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 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.

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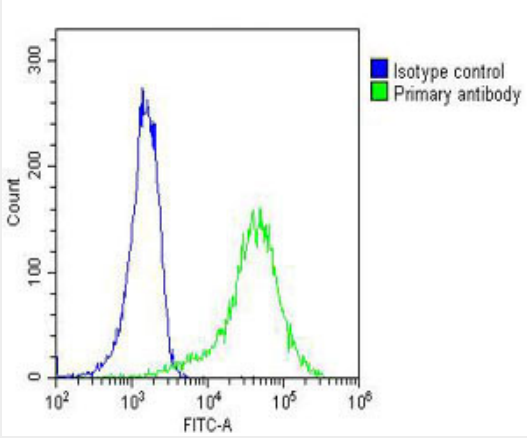

Overlay histogram showing A431 cells stained with AM8558b(green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the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