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MYO18B Antibody

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM8558b

Product Information

Application	WB, FC, IHC-P, E
Primary Accession	Q8IUG5
Reactivity	Human
Predicted	Mouse, Rat, Canine
Host	Mouse
Clonality	monoclonal
Isotype	IgG2b,k
Clone Names	1683CT270.39.50
Calculated MW	285215

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 FC~~1:25 IHC-P~~1:100~500 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.

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

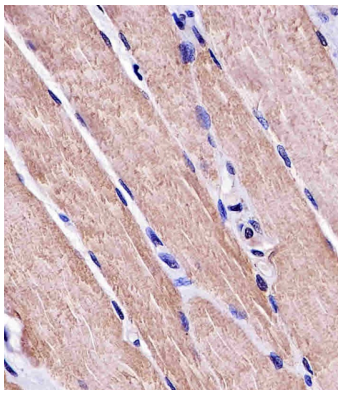
Background

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.

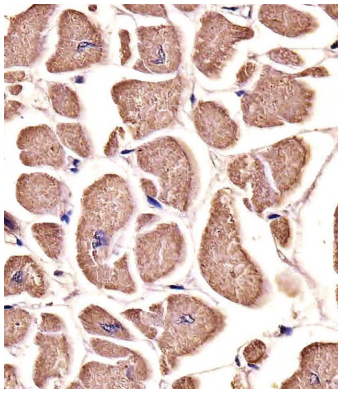
References

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.

Images

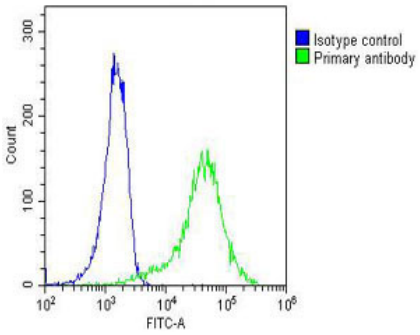


AM8558b staining MYO18B in human skeletal muscle tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0. 5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (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.

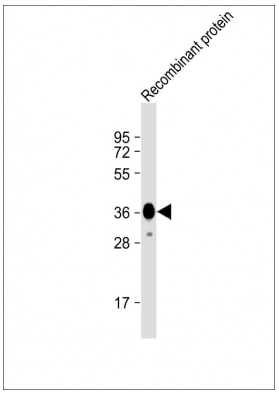


AM8558b staining MYO18B in human heart tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0. 5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). 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.

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.



Anti-MYO18B Antibody at 1:16000 dilution + Recombinant protein Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 285 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.