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MYL1 Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22325c

Specification

MYL1 Antibody (Center) - Product Information

Application	**IF, WB, FC, IHC-P,E**
Primary Accession	P05976
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**21145**

MYL1 Antibody (Center) - Additional Information

Gene ID 4632

Other Names
Myosin light chain 1/3, skeletal muscle isoform, MLC1/MLC3, MLC1F/MLC3F, Myosin light chain alkali 1/2, Myosin light chain A1/A2, MYL1

Target/Specificity
This MYL1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 101-135 amino acids from the Central region of human MYL1.

Dilution
IF~~1:25
WB~~1:2000
FC~~1:25
IHC-P~~1:25
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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
MYL1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

MYL1 Antibody (Center) - Protein Information

Name MYL1

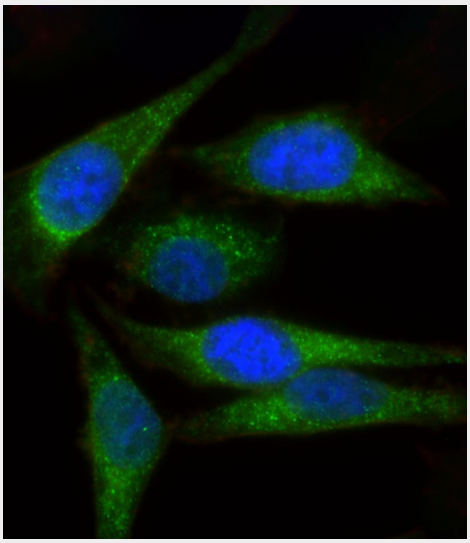
Function Non-regulatory myosin light chain required for proper formation and/or maintenance of myofibers, and thus appropriate muscle function.

MYL1 Antibody (Center) - 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

MYL1 Antibody (Center) - Images



Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0. 1% Triton X-100 permeabilized Hela cells labeling MYL1 with AP22325c at 1/25 dilution, followed by Dylight® 488-conjugated goat anti-Rabbit IgG secondary antibody at 1/200 dilution (green). Immunofluorescence image showing Cytoplasm and Weak Nucleus staining on Hela cell line. The nuclear counter stain is DAPI (blue).

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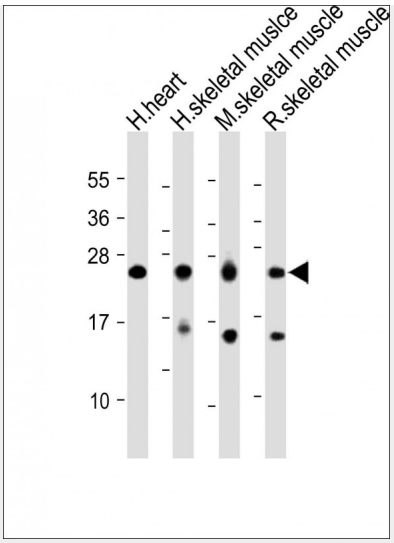
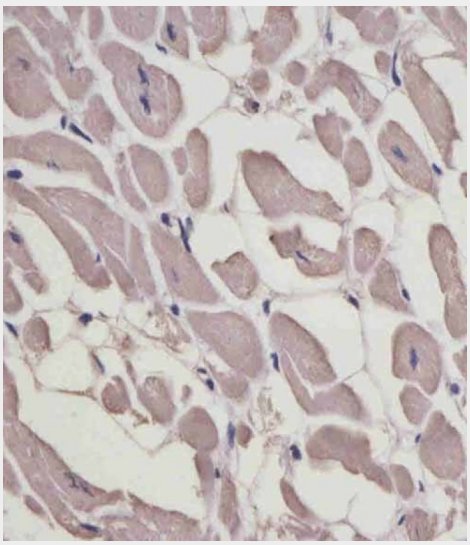


All lanes : Anti-MYL1 Antibody (Center) at 1:2000 dilution Lane 1: Human heart lysate Lane 2: Human skeletal muslce lysate Lane 3: Mouse skeletal muscle lysate Lane 4: Rat skeletal muscle lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 21 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



AP22325c staining MYL1 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.

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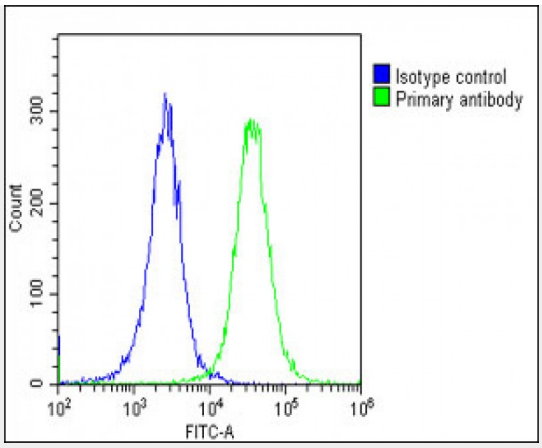

Overlay histogram showing Hela cells stained with AP22325c(green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP22325c, 1:25 dilution) for 60 min at 37ºC. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(OE188374) at 1/200 dilution for 40 min at 37ºC. Isotype control antibody (blue line) was rabbit IgG1 (1µg/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.

MYL1 Antibody (Center) - Background

Regulatory light chain of myosin. Does not bind calcium.

MYL1 Antibody (Center) - References

Seidel U.,et al.Nucleic Acids Res. 15:4989-4989(1987).
Seidel U.,et al.Gene 66:135-146(1988).
Ebert L.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.