

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

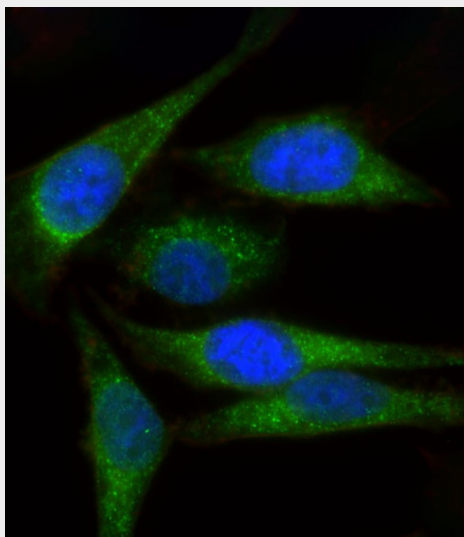
Function Non-regulatory myosin light chain required for proper formation and/or maintenance of myofibers, and thus appropriate muscle function.

MYL1 Antibody (Center) - Protocols

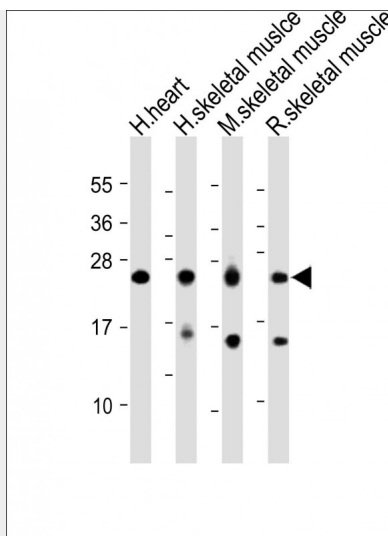
Provided below are standard protocols that you may find useful for product applications.

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

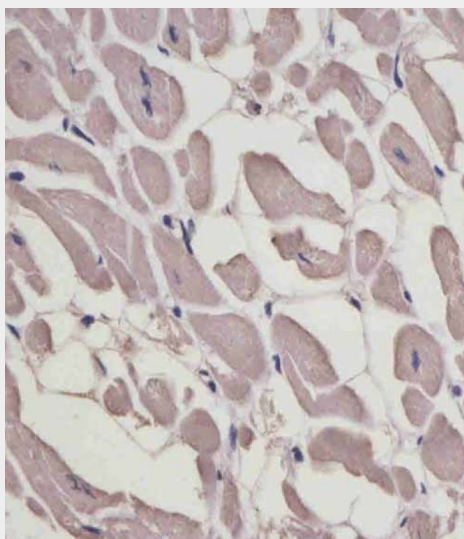
MYL1 Antibody (Center) - Images



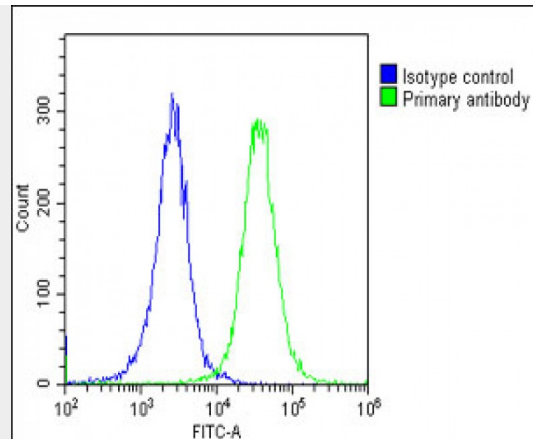
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa cells labeling MYL1 with AP22325c at 1/25 dilution, followed by Dylight® 488-conjugated goat anti-Rabbit IgG secondary antibody at 1/200 dilution (green). Immunofluorescence image showing Cytoplasm and Weak Nucleus staining on HeLa cell line. The nuclear counter stain is DAPI (blue).



All lanes : Anti-MYL1 Antibody (Center) at 1:2000 dilution Lane 1: Human heart lysate Lane 2: Human skeletal muscle 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.



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 incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP22325c, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed (OE188374) at 1/200 dilution for 40 min at 37°C. Isotype control antibody (blue line) was rabbit IgG1 (1 µg/1x10⁶ 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.