

Rabbit anti-Human, Mouse MYL1 Polyclonal Antibody | anti-MYL1 antibody

MYL1 Antibody (Center)

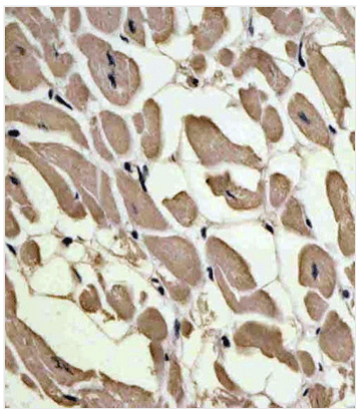
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA290898	Rabbit	Human, Mouse	ELISA, Western Blot, Flow Cytometry, Functional Assay, Immunohistochemistry

PRODUCT SYNONYMS

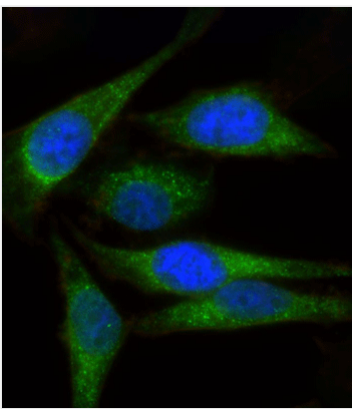
MYL1; Polyclonal Antibody; MYL1 Antibody (Center); Purified Rabbit Polyclonal Antibody (Pab); Myosin light chain 1/3; skeletal muscle isoform; MLC1/MLC3; MLC1F/MLC3F; Myosin light chain alkali 1/2; Myosin light chain A1/A2; anti-MYL1 antibody

PRODUCT SPECIFICATIONS

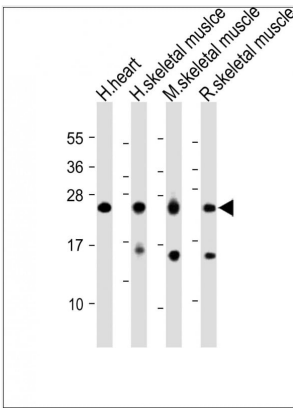
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	Ig
Specificity	This MYL1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 101-135 amino acids from the Central region of human MYL1.
Purity/Purification	Purified through a protein A column, followed by peptide affinity purification.
Form/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.
Sequence Length	194
Applicable Applications for anti-MYL1 antibody	ELISA, WB (Western Blot), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry)
Antigen Type	Synthesized Peptide
Antigen Source	Human
Function	Non-regulatory myosin light chain required for proper formation and/or maintenance of myofibers, and thus appropriate muscle function.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



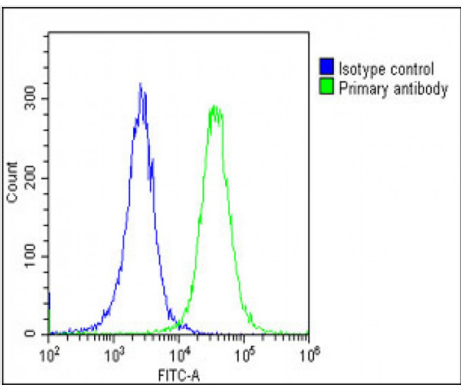
IHC (Immunohistochemistry)
AAA290898 staining MYL1 in human heart tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0. 5 hour at room temperature; antigen retrieval was by heat mediation 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.



IF (Immunofluorescence)
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0. 1% Triton X-100 permeabilized HeLa cells labeling MYL1 with AAA290898 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).



WB (Western Blot)
All lanes : Anti-MYL1 Antibody (Center) at 1:2000 dilutionLane 1: Human heart lysateLane 2: Human skeletal muscle lysateLane 3: Mouse skeletal muscle lysateLane 4: Rat skeletal muscle lysateLysates/proteins at 20 ug per lane.SecondaryGoat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.Predicted band size : 21 kDaBlocking/Dilution buffer: 5% NFDm/TBST.



FCM/FACS (Flow Cytometry)
Overlay histogram showing HeLa cells stained with AAA290898 (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 (AAA290898, 1:25 dilution) for 60 min at 37 degree 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 degree C. Isotype control antibody (blue line) was rabbit IgG1 (1μg/1x10⁶ cells) used under the same conditions. Acquisition of >10, 000 events was performed.

ADDITIONAL INFORMATION

Related Product Information for anti-MYL1 antibody	Regulatory light chain of myosin. Does not bind calcium.
Product Categories/Family for anti-MYL1 antibody	Primary Antibodies; Cardiovascular; Signal Transduction
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/DBJ databases. Ota T.,et al.Nat. Genet. 36:40-45(2004). Mural R.J.,et al. Submitted (JUL-2005) to the EMBL/GenBank/DBJ databases.

NCBI AND UNIPROT INFORMATION

NCBI GI #	17986273
NCBI GeneID	4632

NCBI Accession #	NP_524144.1
NCBI GenBank Nucleotide #	NM_079420.2
UniProt Accession #	P05976 ; P06741 ; Q6IBD5 ; B2R4N6 ; B2R4T6
Molecular Weight	21145
NCBI Official Full Name	myosin light chain 1/3, skeletal muscle isoform isoform 1f
NCBI Official Synonym Full Names	myosin light chain 1
NCBI Official Symbol	MYL1
NCBI Official Synonym Symbols	MLC1F; MLC3F
NCBI Protein Information	myosin light chain 1/3, skeletal muscle isoform
UniProt Protein Name	Myosin light chain 1/3, skeletal muscle isoform
UniProt Gene Name	MYL1
UniProt Synonym Gene Names	MLC1/MLC3; MLC1F/MLC3F; Myosin light chain A1/A2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/myl1-antibody-western-blot-flow-cytometry-immunohistochemistry-elisa/290898>