

Rabbit MYL2 Polyclonal Antibody | anti-MYL2 antibody

MYL2 Antibody (Center)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA290890	Rabbit	Human, Mouse, Rat Predicted: Chicken, Rabbit	ELISA, Western Blot, Flow Cytometry, Functional Assay

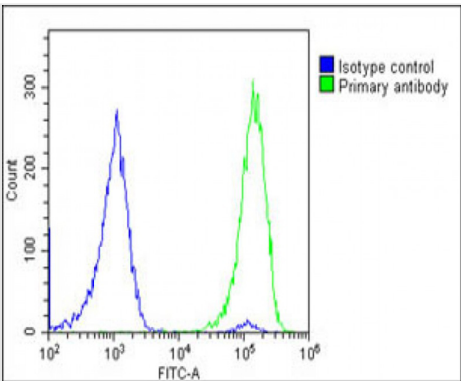
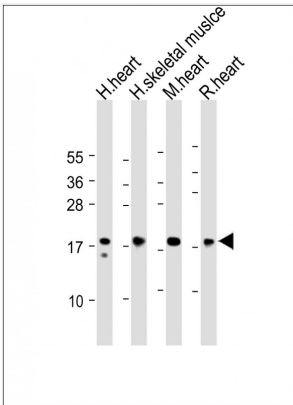
PRODUCT SYNONYMS

MYL2; Polyclonal Antibody; MYL2 Antibody (Center); Purified Rabbit Polyclonal Antibody (Pab); Myosin regulatory light chain 2; ventricular/cardiac muscle isoform; MLC-2; MLC-2v; anti-MYL2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted: Chicken, Rabbit
Clonality	Polyclonal
Isotype	Ig
Specificity	This MYL2 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 42-75 amino acids from the Central region of human MYL2.
Purity/Purification	Purified through a protein A column, followed by peptide affinity purification.
Form/Format	Supplied in PBS with 0.09% (W/V) sodium azide.
Sequence Length	166
Applicable Applications for anti-MYL2 antibody	ELISA, WB (Western Blot), FCM/FACS (Flow Cytometry)
Antigen Type	Synthesized Peptide
Antigen Source	Human
Cellular Location	Cytoplasm, myofibril, sarcomere, A band {ECO:0000250 UniProtKB:P08733}
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.

IMAGES



FCM/FACS (Flow Cytometry)
Overlay histogram showing U-2 OS cells stained with AP22304c(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 (AP22304c, 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-MYL2 antibody	Contractile protein that plays a role in heart development and function (By similarity). Following phosphorylation, plays a role in cross-bridge cycling kinetics and cardiac muscle contraction by increasing myosin lever arm stiffness and promoting myosin head diffusion; as a consequence of the increase in maximum contraction force and calcium sensitivity of contraction force. These events altogether slow down myosin kinetics and prolong duty cycle resulting in accumulated myosins being cooperatively recruited to actin binding sites to sustain thin filament activation as a means to fine-tune myofilament calcium sensitivity to force (By similarity). During cardiogenesis plays an early role in cardiac contractility by promoting cardiac myofibril assembly (By similarity).
Product Categories/Family for anti-MYL2 antibody	Primary Antibodies; Cardiovascular; Signal Transduction; Stem Cells
References	Libera L.D.,et al.Nucleic Acids Res. 17:2360-2360(1989). Wu Q.L.,et al. Submitted (MAR-1996) to the EMBL/GenBank/DDBJ databases. Margossian S.S.,et al. Submitted (AUG-1997) to the EMBL/GenBank/DDBJ databases. Wadgaonkar R.,et al.Cell. Mol. Biol. Res. 39:13-26(1993). Kovalyov L.I.,et al.Electrophoresis 16:1160-1169(1995).

NCBI AND UNIPROT INFORMATION

NCBI GI #	94981553
NCBI GeneID	4633
NCBI Accession #	NP_000423.2
NCBI GenBank Nucleotide #	NM_000432.3
UniProt Accession #	P10916; Q16123
Molecular Weight	18789
NCBI Official Full Name	myosin regulatory light chain 2, ventricular/cardiac muscle isoform
NCBI Official Synonym Full Names	myosin light chain 2
NCBI Official Symbol	MYL2
NCBI Official Synonym Symbols	MLC2; CMH10; MLC-2s/v
NCBI Protein Information	myosin regulatory light chain 2, ventricular/cardiac muscle isoform

UniProt Protein Name	Myosin regulatory light chain 2, ventricular/cardiac muscle isoform
UniProt Gene Name	MYL2
UniProt Synonym Gene Names	MLC-2s/v

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/myl2-antibody-western-blot-flow-cytometry-elisa/290890>