Rabbit anti-Mouse MYL2 Polyclonal Antibody | anti-MYL2 antibody

Anti-MYL2 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255137	**Rabbit**	**Mouse**	**Immunohistochemistry, Western Blot**

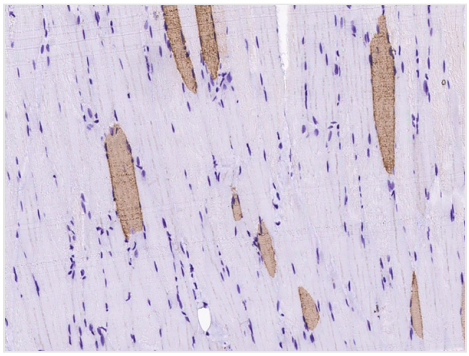
PRODUCT SYNONYMS

MYL2; Polyclonal Antibody; Anti-MYL2 Antibody; Rabbit Polyclonal; MYL2 Antibody; Rabbit PAb; Antigen Affinity Purified; anti-MYL2 antibody

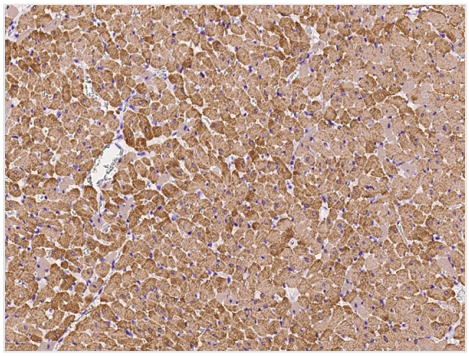
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Mouse MYL2
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-MYL2 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to the center region of the Mouse MYL2
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with a synthetic peptide corresponding to the center region of the Mouse MYL2, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.

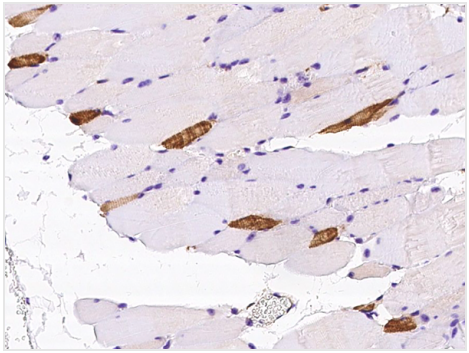
IMAGES



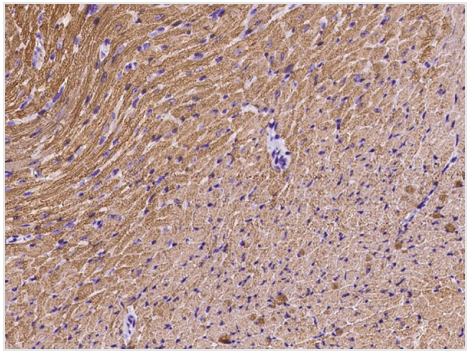
IHC (Immunohistochemistry)
Immunochemical staining of mouse MYL2 in rat skeletal muscle with rabbit polyclonal antibody at 1:1000 dilution, formalin-fixed paraffin embedded sections.



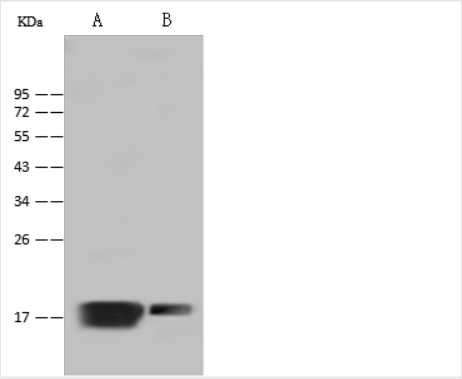
IHC (Immunohistochemistry)
Immunochemical staining of mouse MYL2 in rat heart with rabbit polyclonal antibody at 1:1000 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohistochemisry)
Immunochemical staining of mouse MYL2 in mouse skeletal muscle with rabbit polyclonal antibody at 1:1000 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohiostchemistry)
Immunochemical staining of mouse MYL2 in mouse heart with rabbit polyclonal antibody at 1:1000 dilution, formalin-fixed paraffin embedded sections.



WB (Western Blot)
Anti-MYL2 rabbit polyclonal antibody at 1:500 dilutionLane A: Mouse heart tissue lysateLane B: Mouse muscle tissue lysateLysates/proteins at 30 ug per Lane.SecondaryGoat Anti-Rabbit-Rabbit IgG (H+L)/HRP at 1/10000 dilution.Developed using the ECL technique.Performed under reducing conditions.Predicted band size:19 kDaObserved band size:19 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-MYL2 antibody	Myosin regulatory light chain-2 (MYL2), also called MLC-2, is an ~19kDa sarcomeric protein that belongs to the EF-hand calcium binding protein superfamily and exists as three major isoforms encoded by three distinct genes in mammalian striated muscle. Each of the three different MLC-2 genes (MLC-2f; fast twitch skeletal isoform, MLC-2v; cardiac ventricular and slow twitch skeletal isoform, MLC-2a; cardiac atrial isoform) has a distinct developmental expression pattern in mammals. Genetic loss-of-function studies in mice demonstrated an essential role for cardiac isoforms of MLC-2, MLC-2v and MLC-2a, in cardiac contractile function during early embryogenesis. MYL2 encodes a myosin regulatory light chain (MLC-2V). The myosin regulatory light chains bind, together with the essential light chains, to the flexible neck region of the myosin heavy chain in the hexameric myosin complex and have a structural and regulatory role in muscle contraction. The MYL2 mutations are associated with severe cardiac hypertrophy and sudden cardiac death (SCD).
References	Weterman MA, et al. (2013) Recessive myl2 mutations cause infantile type i muscle fibre disease and cardiomyopathy. Brain 136 (Pt 1): 282-293.Sheikh F, et al. (2015) Functions of myosin light chain-2 (myl2) in cardiac muscle and disease. Gene 569 (1): 14-20.Li Y, et al. (2011) Slow cardiac myosin regulatory light chain 2 (myl2) was down-expressed in chronic heart failure patients. Clin Cardiol 34 (1): 30-34.

NCBI AND UNIPROT INFORMATION

NCBI GI #	153791853
NCBI GeneID	17906
NCBI Accession #	NP_034991.3
NCBI GenBank Nucleotide #	NM_010861.3

UniProt Accession #	P51667; Q6P8P4; Q9QVP3
Molecular Weight	18,864 Da
NCBI Official Full Name	myosin regulatory light chain 2, ventricular/cardiac muscle isoform
NCBI Official Synonym Full Names	myosin, light polypeptide 2, regulatory, cardiac, slow
NCBI Official Symbol	Myl2
NCBI Official Synonym Symbols	MLC-2; Mlc2v; Mylpc; MLC-2v
NCBI Protein Information	myosin regulatory light chain 2, ventricular/cardiac muscle isoform; myosin light chain 2v; ventricular myosin regulatory light chain; myosin light chain, phosphorylatable, cardiac ventricles
UniProt Protein Name	Myosin regulatory light chain 2, ventricular/cardiac muscle isoform
UniProt Gene Name	**Myl2**
UniProt Synonym Gene Names	Mylpc; MLC-2; MLC-2v
UniProt Entry Name	MLRV_MOUSE

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: https://www.aaabiotech.com/polyclonal/myl2-antibody-immunohistochemistry-western-blot-elisa/255137