

Rabbit MYL2 Polyclonal Antibody | anti-MYL2 antibody

Anti-MYL2 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA258842	Rabbit	Mouse, Rat(Species predicted to react based on 100% sequence homology)	Immunoprecipitation, Immunohistochemistry, Western Blot

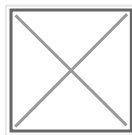
PRODUCT SYNONYMS

MYL2; Polyclonal Antibody; Anti-MYL2 Antibody; Rabbit Polyclonal; anti-MYL2 antibody

PRODUCT SPECIFICATIONS

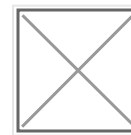
Host	Rabbit
Reactivity	Mouse, Rat (Species predicted to react based on 100% sequence homology)
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-MYL2 antibody	IP (Immunoprecipitation), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to the center region of the Mouse MYL2
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. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



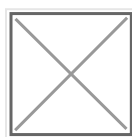
IP (Immunoprecipitation)

MYL2 was immunoprecipitated using: Lane A: 0.5 mg Mouse heart Whole Cell Lysate Lane B: 0.5 mg Rat heart Whole Cell Lysate 4 uL anti-MYL2 rabbit polyclonal antibody and 60 ug of Immunomagnetic beads Protein A/G. Primary antibody: Anti-MYL2 rabbit polyclonal antibody, at 1:100 dilution Secondary antibody: Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 18 kDa Observed band size: 18 kDa



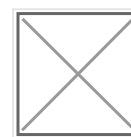
IHC (Immunohistochemistry)

Immunohistochemical staining of rat 2 in rat heart with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohistochemistry)

Immunohistochemical staining of Mouse MYL2 in Mouse heart with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohistochemistry)

Immunohistochemical staining of Mouse MYL2 in Mouse skeletal muscle with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.



WB (Western Blot)

Anti-MYL2 rabbit polyclonal antibody at 1:500 dilutionLane A: Mouse heart tissue lysateLane B: Rat heart tissue lysateLysates/proteins at 30 ug per lane.SecondaryGoat Anti-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	Weternan 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.

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://stage.aaabiotech.com/polyclonal/myl2-antibody-immunoprecipitation-immunohistochemistry-western-blot-elisa/258842>