

Rabbit MYH6 Polyclonal Antibody | anti-MYH6 antibody

Anti-MYH6 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126259	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Flow Cytometry, Functional Assay

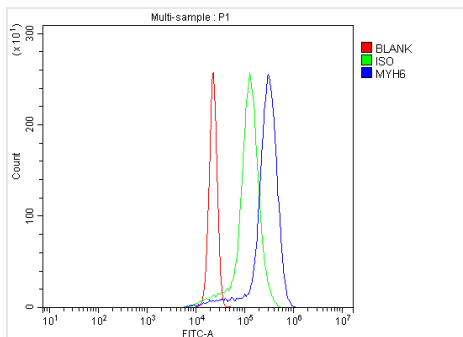
PRODUCT SYNONYMS

MYH6; Polyclonal Antibody; Anti-MYH6 Antibody Picoband; anti-MYH6 antibody

PRODUCT SPECIFICATIONS

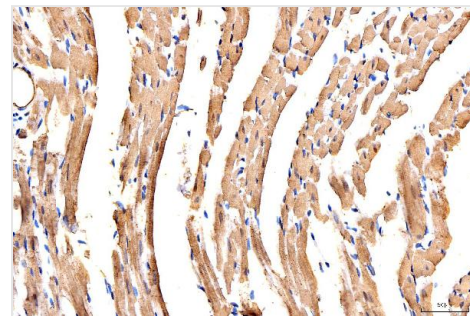
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-MYH6 antibody	WB (Western Blot), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	A synthetic peptide corresponding to a sequence of human MYH6 (RTLEDQANEYRVKLEEAQRSLNDFTTQRAKLQ).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.

IMAGES



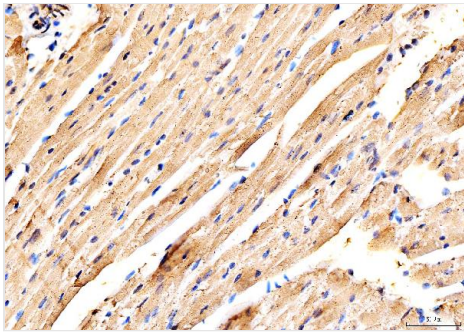
FCM/FACS (Flow Cytometry)

Figure 5 Flow Cytometry analysis of U937 cells using anti-MYH6 antibody (AAA126259). Overlay histogram showing U937 cells stained with AAA126259 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-MYH6 Antibody (AAA126259, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



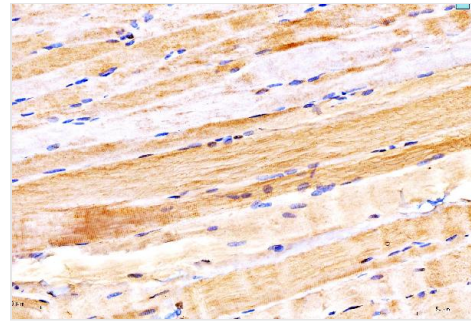
IHC (Immunohistochemistry)

Figure 4. IHC analysis of MYH6 using anti-MYH6 antibody (AAA126259). MYH6 was detected in a paraffin-embedded section of rat cardiac tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-MYH6 Antibody (AAA126259) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



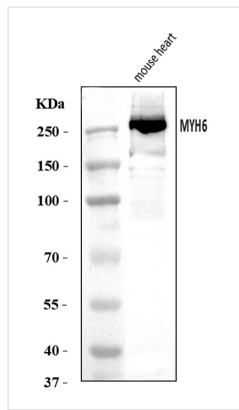
IHC (Immunohistochemistry)

Figure 3. IHC analysis of MYH6 using anti-MYH6 antibody (AAA126259). MYH6 was detected in a paraffin-embedded section of mouse cardiac tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-MYH6 Antibody (AAA126259) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of MYH6 using anti-MYH6 antibody (AAA126259). MYH6 was detected in a paraffin-embedded section of human skeletal muscle tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-MYH6 Antibody (AAA126259) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of MYH6 using anti-MYH6 antibody (AAA126259). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: mouse heart tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-MYH6 antigen affinity purified polyclonal antibody (#AAA126259) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for MYH6 at approximately 224 kDa. The expected band size for MYH6 is at 224 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-MYH6 antibody

Myosin heavy chain, alpha isoform (MHC-alpha) is a protein that in humans is encoded by the MYH6 gene. Cardiac muscle myosin is a hexamer consisting of two heavy chain subunits, two light chain subunits, and two regulatory subunits. This gene encodes the alpha heavy chain subunit of cardiac myosin. The gene is located approximately 4kb downstream of the gene encoding the beta heavy chain subunit of cardiac myosin. Mutations in this gene cause familial hypertrophic cardiomyopathy and atrial septal defect 3.

Product Categories/Family for anti-MYH6 antibody

[Primary Antibodies](#), [Rabbit Polyclonal Antibodies](#)

NCBI AND UNIPROT INFORMATION

NCBI GI

[156104908](#)

NCBI GeneID	4624
NCBI Accession #	NP_002462.2
NCBI GenBank Nucleotide #	NM_002471.3
UniProt Accession #	P13533 ; Q13943 ; Q14906 ; Q14907 ; A2RTX1 ; D9YZU2
Molecular Weight	223,735 Da
NCBI Official Full Name	myosin-6
NCBI Official Synonym Full Names	myosin, heavy chain 6, cardiac muscle, alpha
NCBI Official Symbol	MYH6
NCBI Official Synonym Symbols	ASD3; MYHC; SSS3; CMH14; MYHCA; CMD1EE; alpha-MHC
NCBI Protein Information	myosin-6; myHC-alpha; myosin heavy chain 6; myosin heavy chain, cardiac muscle alpha isoform; myosin, heavy polypeptide 6, cardiac muscle, alpha (cardiomyopathy, hypertrophic 1)
UniProt Protein Name	Myosin-6
UniProt Gene Name	MYH6
UniProt Synonym Gene Names	MYHCA; MyHC-alpha
UniProt Entry Name	MYH6_HUMAN

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/myh6-antibody-western-blot-immunohistochemistry-flow-cytometry-elisa/126259>