

Rabbit heavy chain Myosin/Myh3 Polyclonal Antibody | anti-MYH3 antibody

Anti-heavy chain Myosin/Myh3 Antibody Picoband

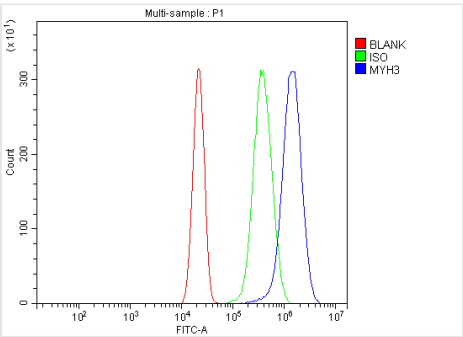
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126241	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

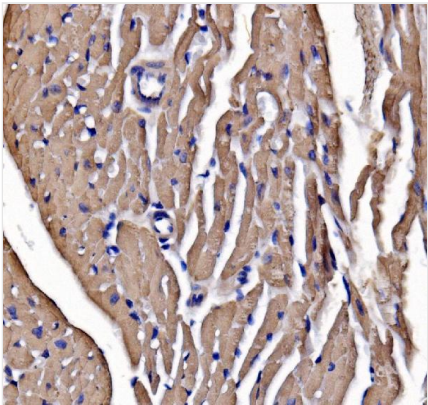
heavy chain Myosin/Myh3; Polyclonal Antibody; Anti-heavy chain Myosin/Myh3 Antibody Picoband; anti-MYH3 antibody

PRODUCT SPECIFICATIONS

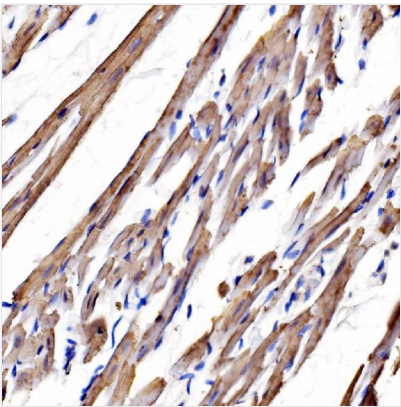
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-MYH3 antibody	WB (Western Blot), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), ELISA
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived rat heavy chain Myosin/Myh3 recombinant protein (Position: K44-S119).
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.



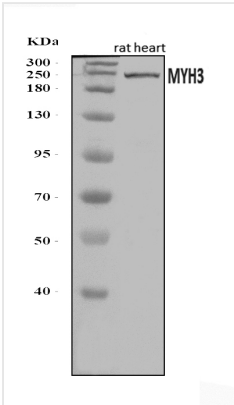
FCM/FACS (Flow Cytometry)
Figure 4. Flow Cytometry analysis of U2OS cells using anti-heavy chain Myosin/Myh3 antibody (AAA126241).Overlay histogram showing U2OS cells stained with AAA126241 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-heavy chain Myosin/Myh3 Antibody (AAA126241, 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 2. IHC analysis of heavy chain Myosin/Myh3 using anti-heavy chain Myosin/Myh3 antibody (AAA126241).heavy chain Myosin/Myh3 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-heavy chain Myosin/Myh3 Antibody (AAA126241) 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 heavy chain Myosin/Myh3 using anti-heavy chain Myosin/Myh3 antibody (AAA126241).heavy chain Myosin/Myh3 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-heavy chain Myosin/Myh3 Antibody (AAA126241) 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 heavy chain Myosin/Myh3 using anti-heavy chain Myosin/Myh3 antibody (AAA126241).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: rat 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-heavy chain Myosin/Myh3 antigen affinity purified polyclonal antibody (#AAA126241) 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 heavy chain Myosin/Myh3 at approximately 224 kDa. The expected band size for heavy chain Myosin/Myh3 is at 224 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-MYH3 antibody	Myosin-3 is a protein that in humans is encoded by the MYH3 gene. Myosin is a major contractile protein which converts chemical energy into mechanical energy through the hydrolysis of ATP. Myosin is a hexameric protein composed of a pair of myosin heavy chains (MYH) and two pairs of nonidentical light chains. This gene is a member of the MYH family and encodes a protein with an IQ domain and a myosin head-like domain. Mutations in this gene have been associated with two congenital contracture (arthrogryposis) syndromes, Freeman-Sheldon syndrome and Sheldon-Hall syndrome.
Product Categories/Family for anti-MYH3 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	6981234
NCBI GeneID	24583
NCBI Accession #	NP_036736.1
NCBI GenBank Nucleotide #	NM_012604.1
UniProt Accession #	P12847
Molecular Weight	223,858 Da
NCBI Official Full Name	myosin-3
NCBI Official Synonym Full Names	myosin, heavy chain 3, skeletal muscle, embryonic
NCBI Official Symbol	Myh3
NCBI Official Synonym Symbols	Myhse; RNMHCG
NCBI Protein Information	myosin-3; myosin heavy chain 3; myosin heavy polypeptide 3; myosin heavy chain, fast skeletal muscle, embryonic; myosin, heavy polypeptide 3, skeletal muscle, embryonic
UniProt Protein Name	Myosin-3
UniProt Gene Name	Myh3
UniProt Entry Name	MYH3_RAT

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://stage.aaabiotech.com/polyclonal/heavy-chain-myosin-myh3-antibody-western-blot-immunohistochemistry-flow-cytometry-elisa/126241>