

Rabbit anti-Human, Mouse MYH7-specific Polyclonal Antibody | anti-MYH7 antibody

MYH7-specific Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA322948	Rabbit	Human, Mouse	Immunohistochemistry, Western Blot

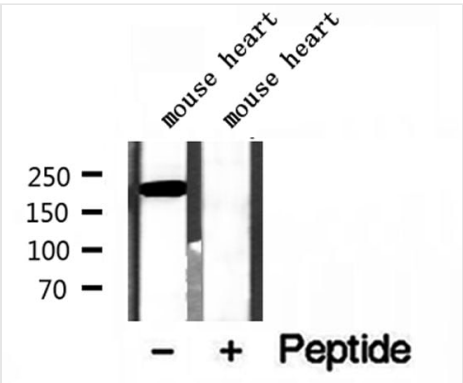
PRODUCT SYNONYMS

MYH7-specific; Polyclonal Antibody; MYH7-specific Antibody; Beta myosin heavy chain; cardiac muscle beta isoform; CMD1S; CMH1; MPD1; MYH7; MYH7_HUMAN; Myhc slow; MyHC-beta; MyHC-slow; MYHCB; Myopathy; distal 1; Myosin heavy chain (AA 1-96); Myosin heavy chain 7; Myosin heavy chain; Myosin heavy chain slow isoform; Myosin; heavy chain 7; cardiac muscle; beta; heavy polypeptide 7; Myosin-7; Rhabdomyosarcoma antigen MU RMS 40.7A; SPMD; SPMM; anti-MYH7 antibody

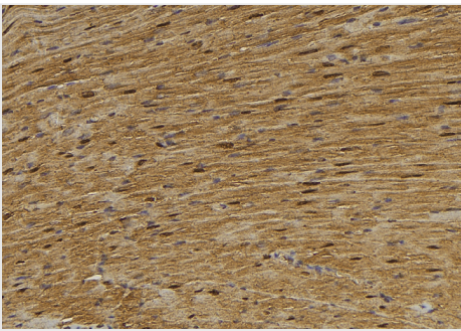
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	MYH7-specific antibody detects endogenous levels of MYH7-specific.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1935
Applicable Applications for anti-MYH7 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human MYH7-specific.
Subcellular Location	Cytoplasm > Myofibril. Thick filaments of the myofibrils.
Tissue Specificity	Both wild type and variant Gln-403 are detected in skeletal muscle (at protein level).
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Dog
Similarity	Pig (92%), Bovine (92%), Horse (100%), Sheep (92%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of extracts of mouse heart tissue, using MYH7-specific antibody.



IHC (Immunohistochemistry)
AAA322948 at 1/100 staining Mouse muscle tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-MYH7 antibody	Function: Myosins are actin-based motor molecules with ATPase activity essential for muscle contraction. Forms regular bipolar thick filaments that, together with actin thin filaments, constitute the fundamental contractile unit of skeletal and cardiac muscle. Subunit Structure: Muscle myosin is a hexameric protein that consists of 2 heavy chain subunits (MHC), 2 alkali light chain subunits (MLC) and 2 regulatory light chain subunits (MLC-2). Interacts with ECPAS (PubMed:20682791). Interacts (via C-terminus) with LRRC39 (PubMed:20847312). Similarity: The rodlike tail sequence is highly repetitive, showing cycles of a 28-residue repeat pattern composed of 4 heptapeptides, characteristic for alpha-helical coiled coils (PubMed:26150528, PubMed:26573747). Four skip residues (Skip1: Thr-1188, Skip2: Glu-1385, Skip3: Glu-1582 and Skip4: Gly-1807) introduce discontinuities in the coiled-coil heptad repeats. The first three skip residues are structurally comparable and induce a unique local relaxation of the coiled-coil superhelical pitch and the fourth skip residue lies within a highly flexible molecular hinge that is necessary for myosin incorporation in the bare zone of sarcomeres (PubMed:26150528). Limited proteolysis of myosin heavy chain produces 1 light meromyosin (LMM) and 1 heavy meromyosin (HMM). HMM can be further cleaved into 2 globular subfragments (S1) and 1 rod-shaped subfragment (S2). Belongs to the TRAFAC class myosin-kinesin ATPase superfamily. Myosin family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	115496169
NCBI GeneID	4625
NCBI Accession #	NP_000248.2
NCBI GenBank Nucleotide #	NM_000257.3
UniProt Accession #	P12883; Q14836; Q14837; Q14904; Q16579; Q2M1Y6; Q92679; Q9H1D5; Q9UDA2; Q9UMM8; A2TDB6; B6D424
Molecular Weight	Observed: 200-220 kDa Predicted: 224 kDa
NCBI Official Full Name	myosin-7
NCBI Official Synonym Full Names	myosin heavy chain 7
NCBI Official Symbol	MYH7
NCBI Official Synonym Symbols	CMH1; MPD1; SPMD; SPMM; CMD1S; MYHCB
NCBI Protein Information	myosin-7
UniProt Protein Name	Myosin-7
UniProt Gene Name	MYH7

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/myh7-specific-antibody-immunohistochemistry-western-blot-elisa/322948>