

Rabbit MYBPC3 Polyclonal Antibody | anti-MYBPC3 antibody

MYBPC3 Antibody (N-term)

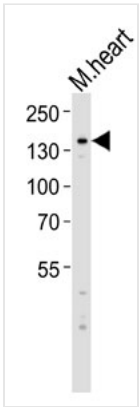
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA28794	Rabbit	Human, Mouse, Rat(Predicted Reactivity: Rat)	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

MYBPC3; Polyclonal Antibody; MYBPC3 Antibody (N-term); Myosin-binding protein C; cardiac-type; Cardiac MyBP-C; C-protein; cardiac muscle isoform; anti-MYBPC3 antibody

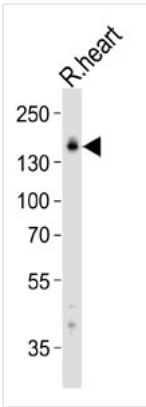
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat (Predicted Reactivity: Rat)
Clonality	Polyclonal
Isotype	IgG
Specificity	This MYBPC3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 189-218 amino acids from the N-terminal region of human MYBPC3.
Purity/Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Sequence Positions	189-218
Sequence Length	1,273
Applicable Applications for anti-MYBPC3 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Application Notes	IHC-P~~1:25 WB~~1:2000
Function	Thick filament-associated protein located in the crossbridge region of vertebrate striated muscle a bands. In vitro it binds MHC, F-actin and native thin filaments, and modifies the activity of actin-activated myosin ATPase. It may modulate muscle contraction or may play a more structural role.
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



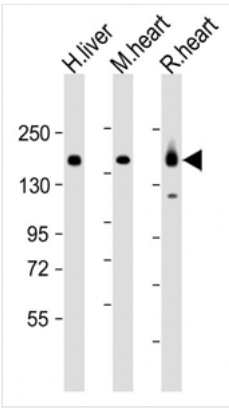
WB (Western Blot)

Western blot analysis of lysate from mouse heart tissue lysate, using MYBPC3 Antibody (N-term). AAA28794 was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.



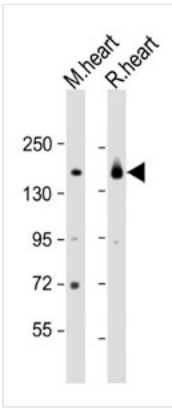
WB (Western Blot)

Western blot analysis of lysate from rat heart tissue lysate, using MYBPC3 Antibody (N-term). AAA28794 was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.



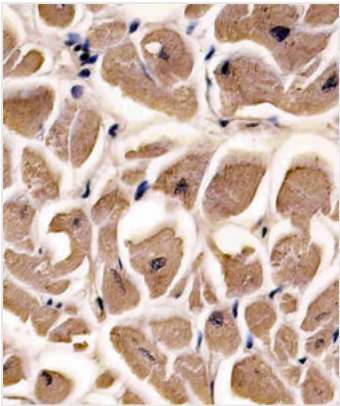
WB (Western Blot)

All lanes : Anti-MYBPC3 Antibody (N-term) at 1:1000-1:2000 dilution Lane 1: human liver lysate Lane 2: mouse heart lysate Lane 3: rat heart lysate Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 141 kDa Blocking/Dilution buffer: 5% NFDm/TBST.



WB (Western Blot)

All lanes : Anti-MYBPC3 Antibody (N-term) at 1:2000 dilution Lane 1: mouse heart lysate Lane 2: rat heart lysate Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 141 kDa Blocking/Dilution buffer: 5% NFDm/TBST.



IHC (Immunohistochemistry)

AAA28794 staining MYBPC3 in human heart tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed,paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0. 5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-MYBPC3 antibody	MYBPC3 encodes the cardiac isoform of myosin-binding protein C. Myosin-binding protein C is a myosin-associated protein found in the cross-bridge-bearing zone (C region) of A bands in striated muscle. MYBPC3, the cardiac isoform, is expressed exclusively in heart muscle. Regulatory phosphorylation of the cardiac isoform in vivo by cAMP-dependent protein kinase (PKA) upon adrenergic stimulation may be linked to modulation of cardiac contraction. Mutations in MYBPC3 are one cause of familial hypertrophic cardiomyopathy.
Product Categories/Family for anti-MYBPC3 antibody	Cardiovascular
References	Millat, G., et al. Clin. Chim. Acta 411 (23-24), 1983-1991 (2010) : Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Millat, G., et al. Eur J Med Genet 53(5):261-267(2010) Zimmerman, R.S., et al. Genet. Med. 12(5):268-278(2010) Brion, M., et al. Ann. Clin. Lab. Sci. 40(3):285-289(2010)

NCBI AND UNIPROT INFORMATION

NCBI GI #	148596957
NCBI GeneID	4607
NCBI Accession #	NP_000247.2
NCBI GenBank Nucleotide #	NM_000256.3
UniProt Accession #	Q14896; Q16410; Q6R2F7; Q9UE27; Q9UM53; A5PL00
NCBI Official Full Name	myosin-binding protein C, cardiac-type
NCBI Official Synonym Full Names	myosin binding protein C, cardiac
NCBI Official Symbol	MYBPC3
NCBI Official Synonym Symbols	FHC; CMH4; CMD1MM; LVNC10; MYBP-C
NCBI Protein Information	myosin-binding protein C, cardiac-type
UniProt Protein Name	Myosin-binding protein C, cardiac-type
UniProt Gene Name	MYBPC3
UniProt Synonym Gene Names	Cardiac MyBP-C
UniProt Entry Name	MYPC3_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://stage.aaabiotech.com/polyclonal/mybpc3-antibody-immunohistochemistry-western-blot-elisa/28794>