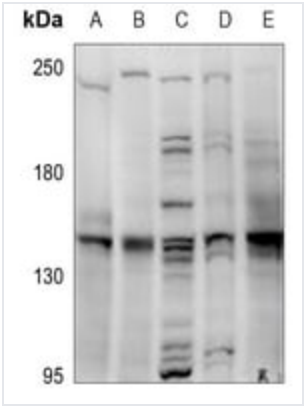
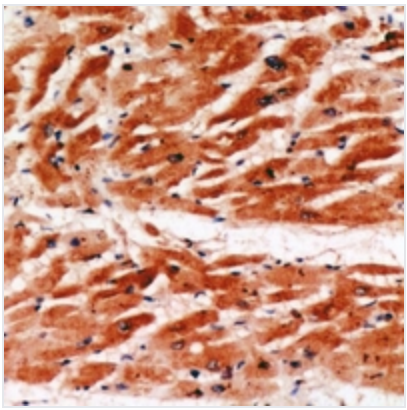
MYBPC3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MYBPC3, Polyclonal Antibody
Full Product Name	Anti-MYBPC3 Antibody
Product Gene Name	anti-MYBPC3 antibody
Product Synonym Names	Myosin-binding protein C; cardiac-type; Cardiac MyBP-C; C-protein; cardiac muscle isoform
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Molecular Weight	140,762 Da
Chromosome Location	Chromosome: 11; NC_000011.9 (47352957..47374253, complement). Location: 11p11.2
OMIM	115197
3D Structure	ModBase 3D Structure for Q14896
Applications Tested/Suitable for anti-MYBPC3 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Related Product Information for anti-MYBPC3 antibody	Rabbit polyclonal antibody to MYBPC3 KLH-conjugated synthetic peptide encompassing a sequence within the center region of human MYBPC3. The exact sequence is proprietary.
Other Notes	Small volumes of anti-MYBPC3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MYBPC3 purchase	MBS9240394 is an antibody targeting MYBPC3. Reactive in Human, Mouse, Rat. Host: Rabbit.



Wester Blot (WB) of anti-MYBPC3 antibody
Dilution: WB (1/500 - 1/2000), IH (1/50 - 1/200)Western blot analysis of MYBPC3 expression in H9C2 (A), Raw264.7 (B), EC9706 (C), H1792 (D), K562 (E) whole cell lysates.



Immunohistochemistry (IHC) of anti-MYBPC3 antibody
Dilution: WB: (1/500 - 1/2000), IH (1/50 - 1/200)Immunohistochemical analysis of MYBPC3 staining in human heart formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MYBPC3. It may not necessarily be applicable to this product.

NCBI GI #	148596957
NCBI GeneID	4607
NCBI Accession #	NP_000247.2
UniProt Primary Accession #	Q14896
UniProt Secondary Accession #	Q16410; Q6R2F7; Q9UE27; Q9UM53; A5PL00
UniProt Related Accession #	Q14896
GenBank Nucleotide #	NM_000256.3
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; MYBP-C
UniProt Protein Name	Myosin-binding protein C, cardiac-type
UniProt Synonym Protein Names	C-protein, cardiac muscle isoform
Protein Family	Myosin-binding protein
UniProt Gene Name	MYBPC3
UniProt Synonym Gene Names	Cardiac MyBP-C
UniProt Entry Name	MYPC3_HUMAN
NCBI Protein Information	myosin-binding protein C, cardiac-type; C-protein, cardiac muscle isoform
NCBI Summary for MYBPC3	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 exclussively 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. [provided by RefSeq, Jul 2008]

UniProt Comments for MYBPC3	MYBPC3: 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. Belongs to the immunoglobulin superfamily. MyBP family. Protein type: Myosin-binding Chromosomal Location of Human Ortholog: 11p11.2 Cellular Component: sarcomere; striated muscle thick filament; cytosol; A band Molecular Function: identical protein binding; ATPase activator activity; myosin binding; structural constituent of muscle; metal ion binding; titin binding; actin binding; myosin heavy chain binding Biological Process: heart morphogenesis; regulation of heart rate; positive regulation of ATPase activity; regulation of muscle filament sliding; regulation of striated muscle contraction; ventricular cardiac muscle morphogenesis; sarcomere organization; cell adhesion; myosin filament assembly; muscle filament sliding; cardiac muscle contraction Disease: Left Ventricular Noncompaction 10; Cardiomyopathy, Familial Hypertrophic, 4
Research Articles on MYBPC3	**1.** Our observations show that the combination of a missense (p.Glu258Lys) and a splice-site mutation (IVS25-1G>A) profoundly affects the clinical course.
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