

**MYBPC3 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AW5399**

**Specification**

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**MYBPC3 Antibody (N-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q14896</a>
Other Accession	<a href="#">P56741</a> , <a href="#">O70468</a> , <a href="#">NP_000247.2</a>
Reactivity	Mouse, Rat
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	H=141;M=141;R=141 KDa
Isotype	Rabbit IgG
Antigen Source	HUMAN

**MYBPC3 Antibody (N-term) - Additional Information**

**Gene ID** 4607

**Antigen Region**  
189-218

**Other Names**

Myosin-binding protein C, cardiac-type, Cardiac MyBP-C, C-protein, cardiac muscle isoform, MYBPC3

**Dilution**

WB~~1:1000

**Target/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.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**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.

**Precautions**

MYBPC3 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**MYBPC3 Antibody (N-term) - Protein Information**

**Name** MYBPC3

**Function**

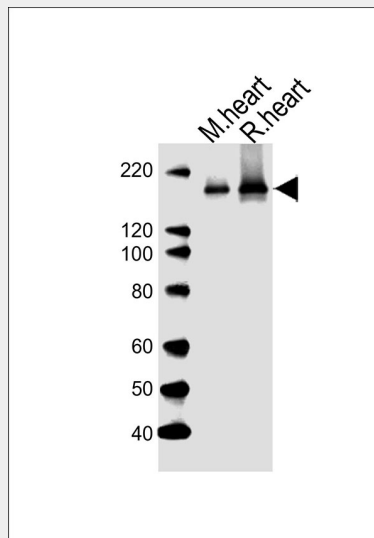
Thick filament-associated protein located in the crossbridge region of vertebrate striated muscle A bands. In vitro it binds MHC, F- actin and native thin filaments, and modifies the activity of actin-activated myosin ATPase. It may modulate muscle contraction or may play a more structural role.

**MYBPC3 Antibody (N-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**MYBPC3 Antibody (N-term) - Images**



All lanes : Anti-MYBPC3 Antibody (N-term) at 1:1000 dilution Lane 1: mouse heart lysates Lane 2: rat heart lysates Lysates/proteins at 20 µg 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.

**MYBPC3 Antibody (N-term) - Background**

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.

**MYBPC3 Antibody (N-term) - 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)