

# MYBPC3 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AW5399

## Product Information

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Application	WB
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	140762
Isotype	Rabbit IgG
Antigen Source	HUMAN

## Additional Information

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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.

## Protein Information

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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.

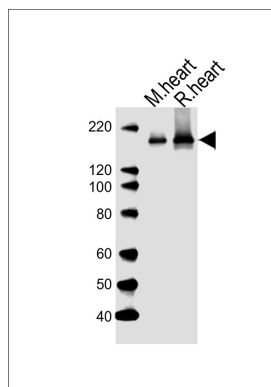
## Background

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.

## 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)

## 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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.