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MYBPC3 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5399

Product Information

Application	WB
Primary Accession	Q14896
Other Accession	P56741, O70468, NP_000247.2
Reactivity	Mouse, Rat
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	140762
Isotype	Rabbit IgG
Antigen Source	HUMAN

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.

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.

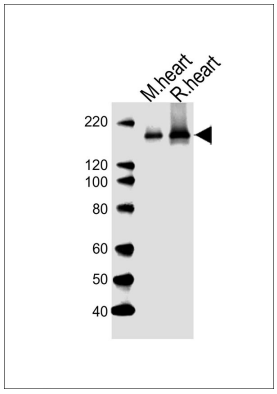
Background

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 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.

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'.