

For Research Use Only

# MYBPC3 Polyclonal antibody

Catalog Number: 19977-1-AP **3 Publications**



## Basic Information

<b>Catalog Number:</b> 19977-1-AP	<b>GenBank Accession Number:</b> NM_000256	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 1000 µg/ml	<b>GeneID (NCBI):</b> 4607	<b>Recommended Dilutions:</b> WB 1:500-1:3000 IHC 1:50-1:500 IF 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q14896	
<b>Isotype:</b> IgG	<b>Full Name:</b> myosin binding protein C, cardiac	
	<b>Calculated MW:</b> 141 kDa	
	<b>Observed MW:</b> 141-150 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC, IHC, WB, ELISA	<b>Positive Controls:</b> WB : mouse heart tissue, rat heart tissue, human heart tissue IHC : mouse heart tissue, IF : mouse heart tissue,
<b>Cited Applications:</b> WB, IHC	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human, mouse	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

MYBPC3 belongs to the immunoglobulin superfamily and MyBP family. MYBPC3 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. Defects in MYBPC3 are the cause of cardiomyopathy familial hypertrophic type 4 (CMH4). The antibody detects the full length form and the degradation bands around 28-54 kDa in SDS-PAGE.(PMID: 22076249)

## Notable Publications

Author	Pubmed ID	Journal	Application
Jie-Yuan Jin	35310975	Front Cardiovasc Med	IHC
Julia Straubinger	28138039	FASEB J	WB
Julius R Herting	37868783	Front Cardiovasc Med	WB

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

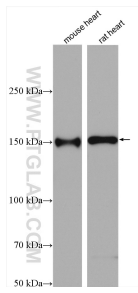
T: 4006900926

E: Proteintech-CN@ptglab.com

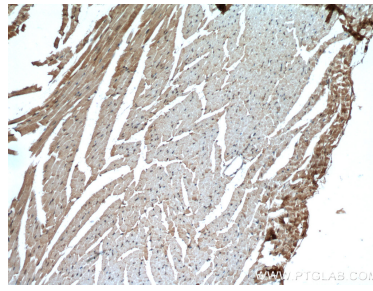
W: ptgcn.com

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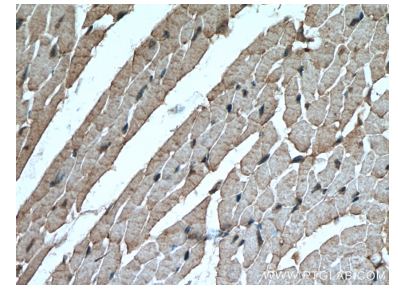
## Selected Validation Data



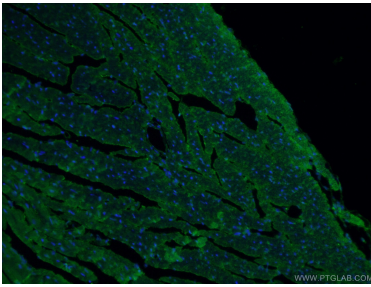
Various lysates were subjected to SDS PAGE followed by western blot with 19977-1-AP (MYBPC3 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



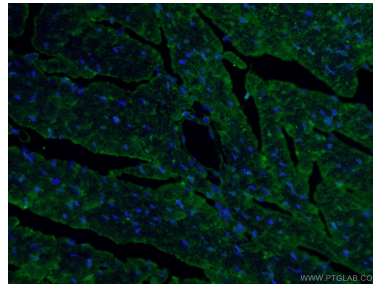
Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 19977-1-AP (MYBPC3 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 19977-1-AP (MYBPC3 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using 19977-1-AP (MYBPC3 antibody) at dilution of 1:50 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using 19977-1-AP (MYBPC3 antibody) at dilution of 1:50 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).