

For Research Use Only

MYBPC3 Polyclonal antibody

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



Basic Information

Catalog Number: 19977-1-AP	GenBank Accession Number: NM_000256	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 1000 µg/ml by Nanodrop and 467 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 4607	Recommended Dilutions: WB 1:500-1:3000 IHC 1:50-1:500 IF-P 1:50-1:500
Source: Rabbit	UNIPROT ID: Q14896	
Isotype: IgG	Full Name: myosin binding protein C, cardiac	
	Calculated MW: 141 kDa	
	Observed MW: 141-150 kDa	

Applications

Tested Applications: WB, IF, IHC, ELISA	Positive Controls: WB : mouse heart tissue, rat heart tissue, human heart tissue IHC : mouse heart tissue, IF-P : mouse heart tissue,
Cited Applications: WB, IHC	
Species Specificity: human, mouse, rat	
Cited Species: human, mouse	

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

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

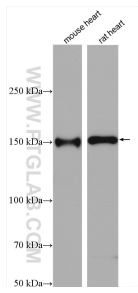
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

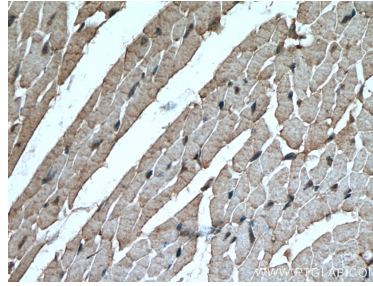
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

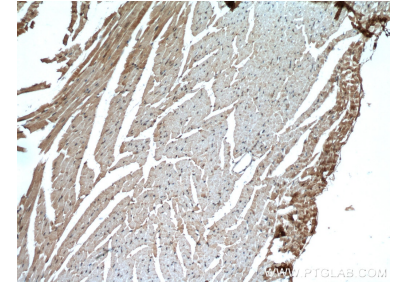
Selected Validation Data



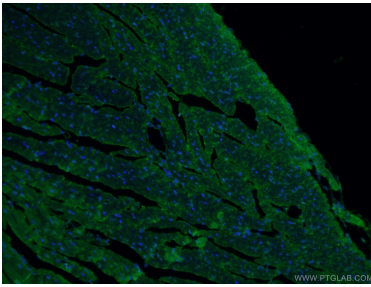
Various lysates were subjected to SDS PAGE followed by western blot with 19977-1-AP (MYBPC3 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



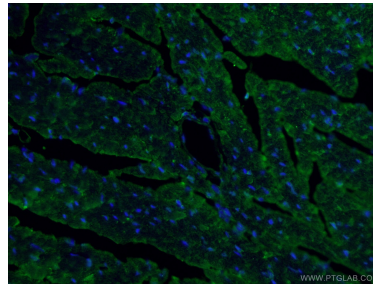
Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 19977-1-AP (MYBPC3 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 19977-1-AP (MYBPC3 antibody) at dilution of 1:200 (under 10x 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).