ARG55679
anti-MYBPC3 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes MYBPC3
Tested Reactivity	Hu, Ms, Rat
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	MYBPC3
Species	Human
Immunogen	KLH-conjugated synthetic peptide corresponding to aa. 189-218 (N-terminus) of Human MYBPC3.
Conjugation	Un-conjugated
Alternate Names	LVNC10; CMD1MM; MYBP-C; Cardiac MyBP-C; Myosin-binding protein C, cardiac-type; FHC; C-protein, cardiac muscle isoform; CMH4

Application Instructions

Application table

Application	Dilution
IHC-P	1:10 - 1:50
WB	1:1000

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	Human liver

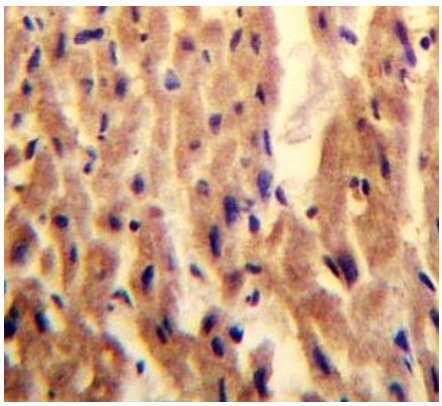
Properties

Form	Liquid
Purification	Purification with Protein A and immunogen peptide.
Buffer	PBS and 0.09% (W/V) Sodium azide.
Preservative	0.09% (W/V) Sodium azide.
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

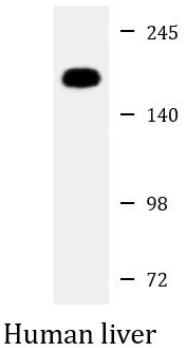
Database links	GeneID: 295929 Rat GeneID: 4607 Human Swiss-port # P56741 Rat Swiss-port # Q14896 Human
Gene Symbol	MYBPC3
Gene Full Name	myosin binding protein C, cardiac
Background	MYBPC3 encodes the cardiac isoform of myosin-binding protein C. Myosin-binding protein C is a myosin-associated protein 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. [provided by RefSeq, Jul 2008]
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. [UniProt]
Calculated Mw	141 kDa
PTM	Substrate for phosphorylation by PKA and PKC. Reversible phosphorylation appears to modulate contraction (By similarity). Polyubiquitinated.

Images



ARG55679 anti-MYBPC3 antibody IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human heart tissue stained with ARG55679 anti-MYBPC3 antibody.



ARG55679 anti-MYBPC3 antibody WB image

Western blot: 20 µg of Human liver lysate stained with ARG55679 anti-MYBPC3 antibody at 1:1000 - 1:2000 dilution.