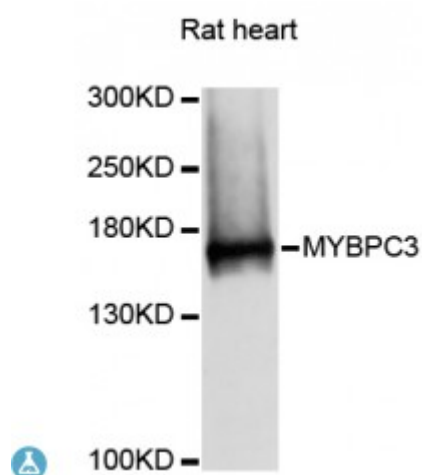


Anti-MYBPC3 Antibody



Description

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.

Model	STJ114230
Host	Rabbit
Reactivity	Rat
Applications	WB
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 200-400 of human MYBPC3 (NP_000247.2).
Gene ID	4607
Gene Symbol	MYBPC3
Dilution range	WB 1:500 - 1:2000
Purification	Affinity purification
Note	For Research Use Only (RUO).
Protein Name	Myosin-binding protein C cardiac-type Cardiac MyBP-C C-protein cardiac muscle isoform
Molecular Weight	140.762 kDa

Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:7551OMIM:115197Reactome:R-HSA-390522
Alternative Names	Myosin-binding protein C cardiac-type Cardiac MyBP-C C-protein cardiac muscle isoform
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
Post-translational Modifications	Substrate for phosphorylation by PKA and PKC, Reversible phosphorylation appears to modulate contraction ,

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