



MYBPC3 Monoclonal Antibody

Catalog No	YP-mAb-10816
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	MYBPC3
Immunogen	Synthesized peptide derived from human MYBPC3 Monoclonal
Specificity	This antibody detects endogenous levels of MYBPC3.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Cardiac MyBP C;Cardiac MyBP-C;C-protein;cardiac muscle isoform;MYBPC 3; Myosin-binding protein C;MYBPC3;cardiac-type (Cardiac MyBP-C) (C-protein; cardiac muscle isoform); cardiac-type (Cardiac MyBP-C) (C-protein; cardiac muscle isoform)
Observed Band	140kD
Calculated Molecular Weight	140kD
Cell Pathway	cytosol,striated muscle myosin thick filament,C zone,sarcomere,A band,
Tissue Specificity	Donated clones,Heart,Pooled,
Function	disease:Defects in MYBPC3 are the cause of cardiomyopathy familial hypertrophic type 4 (CMH4) [MIM:115197]. Familial hypertrophic cardiomyopathy is a hereditary heart disorder characterized by ventricular hypertrophy, which is usually asymmetric and often involves the interventricular septum. The symptoms include dyspnea, syncope, collapse, palpitations, and chest pain. They can be readily provoked by exercise. The disorder has inter- and intrafamilial variability ranging from benign to malignant forms with high risk of cardiac failure and sudden cardiac death.,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.,PTM:Substrate for phosphory

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 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. [provided by RefSeq, Jul 2008],

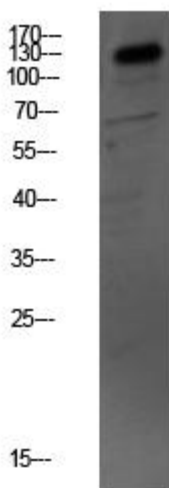
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using MYBPC3 Monoclonal Antibody