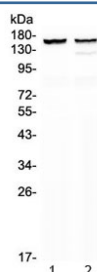


## MYBPC3 Antibody / Myosin-binding protein C (RQ4232)

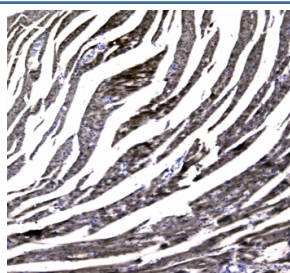
Catalog No.	Formulation	Size
RQ4232	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

**Bulk quote request**

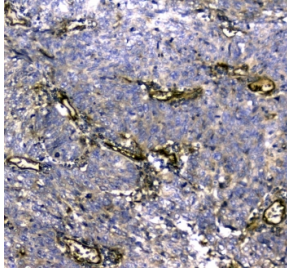
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human, Mouse, Rat
<b>Format</b>	Antigen affinity purified
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Antigen affinity
<b>Buffer</b>	Lyophilized from 1X PBS with 2% Trehalose
<b>UniProt</b>	Q14896
<b>Localization</b>	Cytoplasmic
<b>Applications</b>	Western Blot : 0.5-1ug/ml IHC (FFPE) : 1-2ug/ml Direct ELISA : 0.1-0.5ug/ml
<b>Limitations</b>	This MYBPC3 antibody is available for research use only.



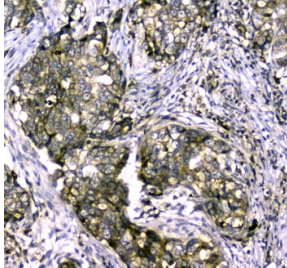
Western blot testing of 1) rat heart and 2) mouse heart lysate with MYBPC3 antibody at 0.5ug/ml. Predicted molecular weight ~141 kDa.



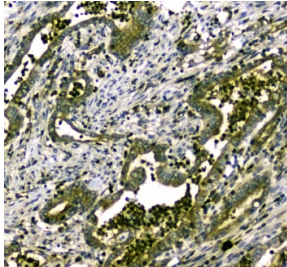
IHC testing of FFPE rat heart tissue with MYBPC3 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



IHC testing of FFPE human lung cancer tissue with MYBPC3 antibody at 1ug/ml.  
Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



IHC testing of FFPE human breast cancer tissue with MYBPC3 antibody at 1ug/ml.  
Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



IHC testing of FFPE human rectal cancer tissue with MYBPC3 antibody at 1ug/ml.  
Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.

## Description

The myosin-binding protein C, cardiac-type is a protein that in humans is encoded by the MYBPC3 gene. 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.

## Application Notes

Optimal dilution of the MYBPC3 antibody should be determined by the researcher.

## Immunogen

A recombinant human protein corresponding to amino acids Q1070-H1123 was used as the immunogen for the MYBPC3 antibody.

## Storage

After reconstitution, the MYBPC3 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.

