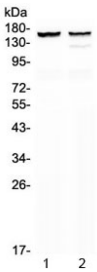
MYBPC3 Antibody / Myosin-binding protein C (RQ4232)

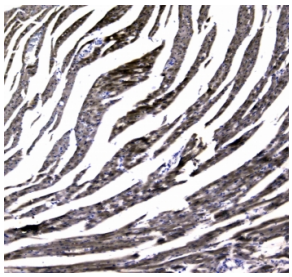
Catalog No.	Formulation	Size
RQ4232	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

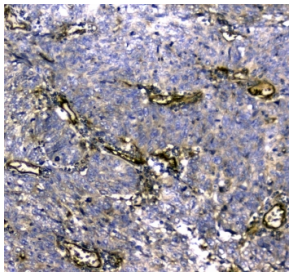
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q14896
Localization	Cytoplasmic
Applications	Western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



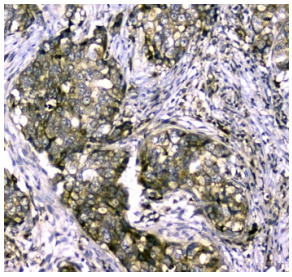
Western blot testing of 1) rat heart and 2) mouse heart lysate with MYBPC3 antibody at 0.5ug/ml. Predicted molecular weight ~141 kDa.



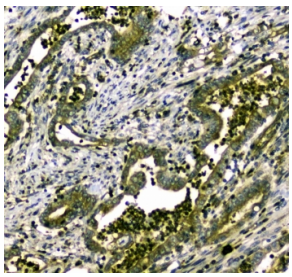
IHC testing of FFPE rat heart tissue with MYBPC3 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



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 encode 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 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.

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 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.