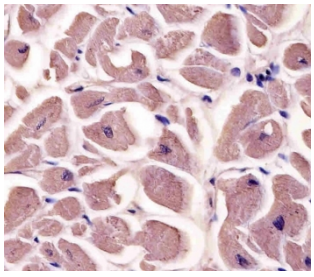
Myosin-binding protein C Antibody / MYBPC3 (F55102)

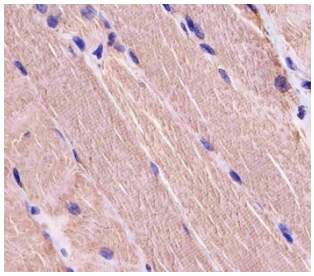
Catalog No.	Formulation	Size
F55102-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F55102-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

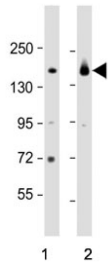
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	Q14896
Applications	Western blot: 1:1000-1:2000 Immunohistochemistry (FFPE): 1:25
Limitations	This Myosin-binding protein C antibody is available for research use only.



IHC staining of FFPE human heart tissue with Myosin-binding protein C antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



IHC staining of FFPE human skeletal muscle tissue with Myosin-binding protein C antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



Western blot testing of 1) mouse heart and 2) rat heart tissue lysate with Myosin-binding protein C antibody. Predicted molecular weight ~141 kDa.

Description

Myosin-binding protein C is a thick filament-associated protein that interacts with myosin and actin to regulate muscle contraction. It acts as a molecular ruler, fine-tuning the interactions between myosin and actin to ensure proper muscle function. MYBPC3 mutations can disrupt this delicate balance, leading to impaired muscle contraction and potential cardiac complications. Mutations in the MYBPC3 gene have been associated with hypertrophic cardiomyopathy (HCM), a condition characterized by thickening of the heart muscle. These mutations can disrupt the normal function of Myosin-binding protein C, leading to abnormal muscle contraction and potentially life-threatening complications.

Application Notes

The stated application concentrations are suggested starting points. Titration of the Myosin-binding protein C antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 189-218 from the human protein was used as the immunogen for the Myosin-binding protein C antibody.

Storage

Aliquot the Myosin-binding protein C antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Copyright © NSJ Bioreagents. All rights reserved.