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MYBPC1 Antibody
Catalog # ASC11087

Specification

MYBPC1 Antibody - Product Information

Application	**IHC-P, IF, E**
Primary Accession	Q00872
Other Accession	NP_002456, 45976288
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Application Notes	**MYBPC1 antibody can be used for detection of MYBPC1 by immunohistochemistry at 5 µg/mL. For immunofluorescence start at 5 µg/mL.**

MYBPC1 Antibody - Additional Information

Gene ID	**4604**

Target/Specificity
MYBPC1;

Reconstitution & Storage
Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.

Precautions
MYBPC1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

MYBPC1 Antibody - Protein Information

Name MYBPC1

Synonyms MYBPCS

Function
Thick filament-associated protein located in the crossbridge region of vertebrate striated muscle a bands. Slow skeletal protein that binds to both myosin and actin (PubMed:31025394, PubMed:31264822). In vitro, binds to native thin filaments and modifies the activity of actin-activated myosin ATPase. May modulate muscle contraction or may play a more structural role.

MYBPC1 Antibody - Protocols

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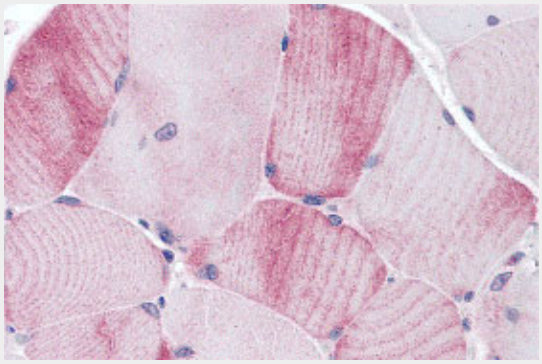
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

MYBPC1 Antibody - Images



Immunohistochemistry of MYBPC1 in human skeletal muscle tissue with MYBPC1 antibody at 5 µg/mL.

MYBPC1 Antibody - Background

MYBPC1 Antibody: Myosin binding protein C (MYBPC) is a component of the thick filament of striated muscle, with the slow-type isoform designated MYBPC1. Both the fast-type (MYBPC2) and slow-type MYBPC protein contains seven immunoglobulin C2 motifs and three fibronectin type-III repeats. Multiple isoforms of MYBPC1 are known to exist, and are present in varying amounts in different skeletal muscles. It is thought that the MYBPC1 slow subfamily may play important roles in the assembly and stabilization of sarcomeric M- and A-bands and regulate the contractile properties of the actomyosin filaments.

MYBPC1 Antibody - References

Furst DO, Vinkemeir U and Weber K. Mammalian skeletal muscle C-protein: purification from bovine muscle, binding to titin and the characterization of a full-length human cDNA. J. Cell Sci. 1992; 102:769-78.
Weber FE, Vaughan KT, Reiach FC, et al. Complete sequence of human fast-type and slow-type muscle myosin-binding-protein C (MyBP-C). Differential expression, conserved domain structure and chromosome assignment. Eur. J. Biochem. 1993; 216:661-9.
Ackermann MA and Kontrogianni-Konstantopoulous A. Myosin binding protein-C slow: an intricate subfamily of proteins. J. Biomed. Biotech. 2010; 2010:652065