

Product datasheet

Anti-MYBPC3 antibody [EPR3008(2)] ab108522

Recombinant RabMAb

3 Images

Overview

Product name	Anti-MYBPC3 antibody [EPR3008(2)]
Description	Rabbit monoclonal [EPR3008(2)] to MYBPC3
Host species	Rabbit
Tested applications	Suitable for: WB Unsuitable for: Flow Cyt, ICC/IF or IHC-P
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human heart tissue lysate.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 0.05% BSA, 59% PBS
Purity	Protein A purified
Clonality	Monoclonal

Clone number EPR3008(2)

Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab108522 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000 - 1/10000. Predicted molecular weight: 141 kDa.

Application notes Is unsuitable for Flow Cyt, ICC/IF or IHC-P.

Target

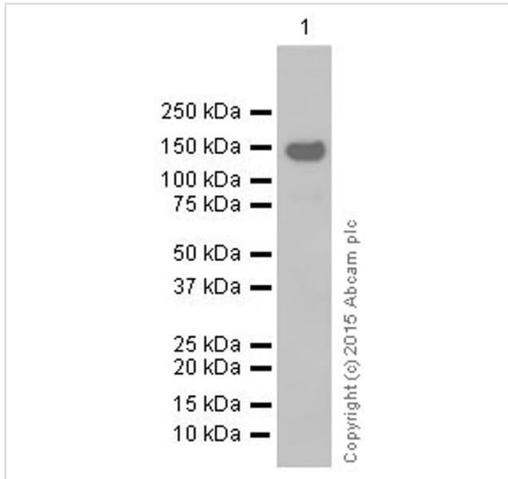
Function Thick filament-associated protein located in the crossbridge region of vertebrate striated muscle a bands. In vitro it binds MHC, F-actin and native thin filaments, and modifies the activity of actin-activated myosin ATPase. It may modulate muscle contraction or may play a more structural role.

Involvement in 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.

Sequence similarities Belongs to the immunoglobulin superfamily. MyBP family.
Contains 3 fibronectin type-III domains.
Contains 7 Ig-like C2-type (immunoglobulin-like) domains.

Post-translational modifications Substrate for phosphorylation by PKA and PKC. Reversible phosphorylation appears to modulate contraction.

Images



Western blot - Anti-MYBPC3 antibody [EPR3008(2)] (ab108522)

Anti-MYBPC3 antibody [EPR3008(2)] (ab108522) at 1/5000 dilution (purified) + Human heart tissue lysate at 10 µg

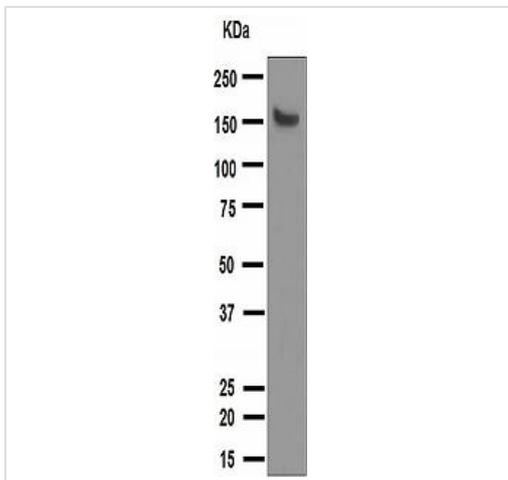
Secondary

Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Predicted band size: 141 kDa

Observed band size: 141 kDa

Blocking and dilution buffer: 5% NFDM /TBST.



Western blot - Anti-MYBPC3 antibody [EPR3008(2)] (ab108522)

Anti-MYBPC3 antibody [EPR3008(2)] (ab108522) at 1/1000 dilution (unpurified) + Human heart tissue lysate at 10 µg

Predicted band size: 141 kDa

Why choose a recombinant antibody?

<p>Research with confidence Consistent and reproducible results</p>	<p>Long-term and scalable supply Recombinant technology</p>
<p>Success from the first experiment Confirmed specificity</p>	<p>Ethical standards compliant Animal-free production</p>

Anti-MYBPC3 antibody [EPR3008(2)] (ab108522)

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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