MYBPC3 Antibody (N-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	MYBPC3, Blocking Peptide
Full Product Name	MYBPC3 Antibody (N-term) Blocking peptide
Product Gene Name	MYBPC3 blocking peptide
Product Synonym Names	Myosin-binding protein C; cardiac-type; Cardiac MyBP-C; C-protein; cardiac muscle isoform; MYBPC3
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	MYBPC3 peptide (MBS9219123) is used for blocking the activity of MYBPC3 antibody (MBS9215190)
Molecular Weight	140,703 Da
OMIM	115197
Related Product Information for MYBPC3 blocking peptide	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.
Other Notes	Small volumes of MYBPC3 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MYBPC3 purchase	MBS9219123 is a blocking peptide targeting MYBPC3. Also known as MYBPC3 Antibody (N-term) Blocking peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MYBPC3. It may not necessarily be applicable to this product.

NCBI GI #	425906074
NCBI GeneID	4607
NCBI Accession #	Q14896.4
UniProt Primary Accession #	Q14896
UniProt Secondary Accession #	Q16410; Q6R2F7; Q9UE27; Q9UM53; A5PL00
UniProt Related Accession #	Q14896
NCBI Official Full Name	Myosin-binding protein C, cardiac-type
NCBI Official Synonym Full Names	myosin binding protein C, cardiac
NCBI Official Symbol	MYBPC3
NCBI Official Synonym Symbols	FHC; CMH4; CMD1MM; LVNC10; MYBP-C
UniProt Protein Name	Myosin-binding protein C, cardiac-type
UniProt Synonym Protein Names	C-protein, cardiac muscle isoform
Protein Family	Myosin-binding protein

UniProt Gene Name	MYBPC3
UniProt Synonym Gene Names	Cardiac MyBP-C
UniProt Entry Name	MYPC3_HUMAN
NCBI Protein Information	myosin-binding protein C, cardiac-type
NCBI Summary for MYBPC3	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. [provided by RefSeq, Jul 2008]
UniProt Comments for MYBPC3	MYBPC3: 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. Belongs to the immunoglobulin superfamily. MyBP family. Protein type: Myosin-binding Chromosomal Location of Human Ortholog: 11p11.2 Cellular Component: A band; cytosol; sarcomere; striated muscle thick filament Molecular Function: ATPase activator activity; identical protein binding; myosin binding; myosin heavy chain binding; protein binding; structural constituent of muscle Biological Process: cardiac muscle contraction; heart morphogenesis; muscle filament sliding; positive regulation of ATPase activity; regulation of muscle filament sliding; regulation of striated muscle contraction; ventricular cardiac muscle morphogenesis Disease: Cardiomyopathy, Familial Hypertrophic, 4; Left Ventricular Noncompaction 10
Research Articles on MYBPC3	**1.** The detection of MYBPC3 mutation, especially the PTC mutation and double-mutation, may serve as a molecular marker for clinical risk stratification of HCM.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/blocking-peptide/mybpc3/9219123