MYBPC3 peptide (DAG-P0954)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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]
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the immunoglobulin superfamily. MyBP family.Contains 3 fibronectin type-III domains.Contains 7 Ig-like C2-type (immunoglobulin-like) domains.
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	MYBPC3 myosin binding protein C, cardiac [Homo sapiens (human)]
Official Symbol	MYBPC3
Synonyms	MYBPC3; myosin binding protein C, cardiac; FHC; CMH4; CMD1MM; LVNC10; MYBP-C; myosin-binding protein C, cardiac-type; C-protein, cardiac muscle isoform;
Entrez Gene ID	4607

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

mRNA Refseq	NM_000256.3
Protein Refseq	NP_000247.2
UniProt ID	A5YM48
Chromosome Location	11p11.2
Pathway	Dilated cardiomyopathy, organism-specific biosystem; Dilated cardiomyopathy, conserved biosystem; Hypertrophic cardiomyopathy (HCM), organism-specific biosystem; Hypertrophic cardiomyopathy (HCM), conserved biosystem; Muscle contraction, organism-specific biosystem; Striated Muscle Contraction, organism-specific biosystem; Striated Muscle Contraction, organism-specific biosystem;
Function	ATPase activator activity; actin binding; identical protein binding; metal ion binding; myosin binding; myosin heavy chain binding; structural constituent of muscle; titin binding;

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