

## Product datasheet for **CF813738**

### MYBPC3 Mouse Monoclonal Antibody [Clone ID: OTI7C4]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI7C4
Applications:	ELISA
Recommended Dilution:	ELISA 1:5000-10000
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human MYBPC3 C0-C1 (NP_000247) produced in E.coli.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Predicted Protein Size:	140.8 kDa
Gene Name:	myosin binding protein C3
Database Link:	<a href="#">NP_000247</a> <a href="#">Entrez Gene 4607 Human</a> <a href="#">Q14896</a>



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<b>Background:</b>	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 exclusively 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]
<b>Synonyms:</b>	CMD1MM; CMH4; cMyBP-C; FHC; LVNC10; MYBP-C
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM)