

## Product datasheet for **AP52783PU-N**

### MYBPC3 (N-term) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	<b>Immunohistochemistry on Paraffin Sections:</b> 1/10-1/50. <b>Western blot:</b> 1/100-1/500. <b>Enzyme immunoassay:</b> 1/1000.
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	KLH conjugated synthetic peptide between 189-218 amino acids from the N-terminal region of Human MYBPC3.
Specificity:	This antibody recognizes MYBPC3 at N-term.
Formulation:	PBS State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.09% (W/V) Sodium Azide
Concentration:	lot specific
Purification:	Purified through a Protein A column followed by peptide affinity purification
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	myosin binding protein C, cardiac
Database Link:	<a href="#">Entrez Gene 17868 Mouse</a> <a href="#">Entrez Gene 4607 Human</a> <a href="#">Q14896</a>



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**Background:** 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.

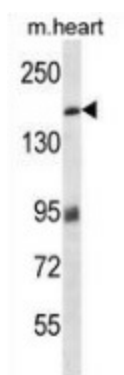
**Synonyms:** CMH4; DKFZp779E1762; FHC; MYBP-C

**Note:** **Molecular Weight:** 140606 Da

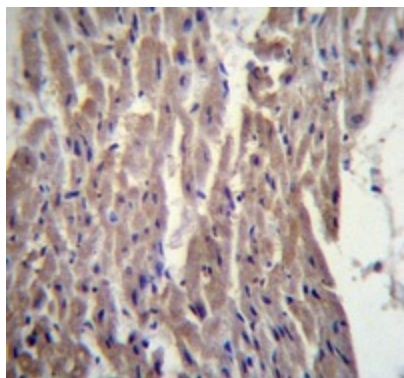
**Protein Families:** Druggable Genome

**Protein Pathways:** Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM)

### Product images:



Western blot analysis in mouse heart tissue lysates (35ug/lane) using MYBPC3 antibody. (N-term). This demonstrates this antibody detected the MYBPC3 protein (arrow).



Immunohistochemistry analysis in human heart tissue (Formalin-fixed, Paraffin-embedded) using MYBPC3 antibody. (N-term), followed by peroxidase conjugated secondary antibody and DAB staining. This data demonstrates the use of this antibody for IHC. Clinical relevance has not been evaluated.