

Product datasheet for TP317720

MYBPC3 (NM_000256) Human Recombinant Protein

Product data:

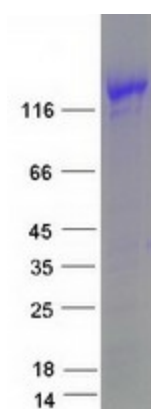
Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Homo sapiens myosin binding protein C, cardiac (MYBPC3)
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC217720 representing NM_000256 Red=Cloning site Green=Tags(s)
	<p>MPEPGKKPVSAFSSKPRSVEVAAGSPAVFEAETERAGVKVRWQRGGSDISASNKYGLATEGTRHTLTVRE VGPADQGSYAVIAGSSKVKFDLKVIEAEKAEPMLAPAPAPAEATGAPGEAPAPAAELGESAPSPKGS ALNGPTPGAPDDPIGLFVMRPQDGEVTVGGSITFSARVAGASLLKPPVVKWFKGKWVDLSSKVGQHLQLH DSYDRASKVYLFELHITDAQPAFTGSYRCEVSTKDKFDCSNFNLTVHEAMGTGDLDLLSAFRRTSLAGG RRISDSHEDTGILDFSSLLKKRDSFRTPRDSKLEAPAEEDVWEILRQAPPSEYERIAFYGVTDLRGMLK RLKGMRRDEKKSTAFQKKLEPAYQVSKGHKIRLTVELADHDAEVKWLKNGQEIQMSGSKYIFESIGAKRT LTISQCSLADDAAYQCVVGGEKCSSTELFVKEPPVLITRPLEDQLVMVGQRVEFECEVSEEGAQVKWLKDG VELTREETFKYRFKKGQRHHLIINEAMLEDAGHYALCTSGGQALAEIVQEKKLEVYQSIADLMVGAKD QAVFKCEVSDENVRGVWLKNGKELVPDSRIKVS HIGRVHKLTI DDVTPADEADYSFVPEGFACNLSAKLH FMEVKIDFVPRQEPPIKHLDCPGRIPDTIVVAGNKLRLDVPISGDPAPTIVWQKAITQGNKAPARPAPD APEDTGDSDEWVFDKLLCETEGRVVETTKDRSIFTVEGAKEDEGVYTVTKNPVGEDQVNLTVKVID VPDAPAAPKISNVGEDSCTVQWEPPAYDGGQPILGYILERKKKSYRWMRLNFDLIQELSHEARRMIEGV VYEMRVYAVNAIGMSRSPASQPFMPIGPPSEPTHLAVEDVSDTTVSLKWRPPERVVGAGGLDGYVVEYCP EGCSEWVAALQGLTEHTSILVKDLPTGARLLFRVRAHNMAGPGAPVTTEPVTVQEILQRPRQLPRHLR QTIQKKVGEVNVLLIPFQGKPRPQVTWTKEGQPLAGEEVSIRNSPTDITLIRAARRVHSGTYQVTVRIE NMEDKATLVLQVVDKPSPPQDLRVTDAGLNVALEWKPPQDVGNTLWGYTVQKADKKTMEWFTVLEHYR RTHCVPELIIGNGYFRVFSQNMVGFSDRAATTKEPVFIPRPGITYEPPNYKALDFSEAPSFTQPLVNR SVIAGYTAMLCCAVRGSPKPKISWFKNGLDLGEDARFRMFSKQGVLTLEIRKPCPFDDGGIYVCRATNLQG EARCECRLEVRVPQ</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
Tag:	C-Myc/DDK
Predicted MW:	140.6 kDa
Concentration:	>50 ug/mL as determined by microplate BCA method



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Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Applications:	Cell culture: For culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_000247
Locus ID:	4607
UniProt ID:	Q14896 , A5YM48
RefSeq Size:	4200
Cytogenetics:	11p11.2
RefSeq ORF:	3822
Synonyms:	CMD1MM; CMH4; cMyBP-C; FHC; LVNC10; MYBP-C
Summary:	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]
Protein Families:	Druggable Genome
Protein Pathways:	Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM)

Product images:



Coomassie blue staining of purified MYBPC3 protein (Cat# TP317720). The protein was produced from HEK293T cells transfected with MYBPC3 cDNA clone (Cat# [RC217720]) using MegaTran 2.0 (Cat# [TT210002]).