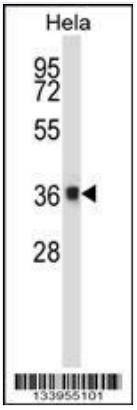
PPP1CB Antibody – Rabbit Polyclonal

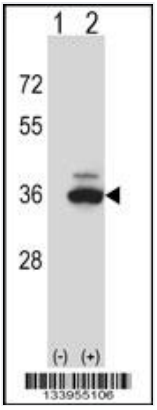
PRODUCT OVERVIEW

Product Name	PPP1CB, Polyclonal Antibody
Full Product Name	PPP1CB, CT (PPP1CB, Serine/threonine-protein phosphatase PP1-beta catalytic subunit) (Biotin)
Product Gene Name	anti-PPP1CB antibody
Product Synonym Names	PPP1CB; Serine/threonine-protein phosphatase PP1-beta catalytic subunit
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	37kDa
OMIM	600590
3D Structure	ModBase 3D Structure for P62140
Immunogen	PPP1CB antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 297-327 amino acids from the C-terminal region of human PPP1CB.
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-PPP1CB antibody	Antibodies; Enzymes; Phosphatase
Applications Tested/Suitable for anti-PPP1CB antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-PPP1CB antibody	WB: 1:100-500 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-PPP1CB antibody	The protein encoded by this gene is one of the three catalytic subunits of protein phosphatase 1 (PP1). PP1 is a serine/threonine specific protein phosphatase known to be involved in the regulation of a variety of cellular processes, such as cell division, glycogen metabolism, muscle contractility, protein synthesis, and HIV-1 viral transcription. Mouse studies suggest that PP1 functions as a suppressor of learning and memory. Two alternatively spliced transcript variants encoding distinct isoforms have been observed.
Product References and Citations for anti-PPP1CB antibody	Lee, J.H., et al. J. Biol. Chem. 285(32):24466-24476(2010). Fujiki, R., et al. Nature 459(7245):455-459(2009). Mavaddat, N., et al. Cancer Epidemiol. Biomarkers Prev. 18(1):255-259(2009). Sueyoshi, T., et al. Mol. Pharmacol. 73(4):1113-1121(2008). Rikova, K., et al. Cell 131(6):1190-1203(2007).
Other Notes	Small volumes of anti-PPP1CB antibody 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 PPP1CB purchase	MBS6336469 is an antibody targeting PPP1CB. Also known as PPP1CB, CT (PPP1CB, Serine/threonine-protein phosphatase PP1-beta catalytic subunit) (Biotin). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-PPP1CB antibody
PPP1CB Antibody (C-term) western blot analysis in Hela cell line lysates (35ug/lane).This demonstrates the PPP1CB antibody detected the PPP1CB protein (arrow).



Western Blot (WB) of anti-PPP1CB antibody
Western blot analysis of PPP1CB (arrow) using rabbit polyclonal PPP1CB Antibody (C-term). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the PPP1CB gene.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PPP1CB. It may not necessarily be applicable to this product.

NCBI GI #	4506005
NCBI GeneID	5500
NCBI Accession #	NP_002700.1
NCBI Related Accession #	NP_996759.1
UniProt Primary Accession #	P62140
UniProt Secondary Accession #	P37140; Q5U087; Q6FG45; B2R5V4; D6W565
UniProt Related Accession #	P62140
GenBank Nucleotide #	NM_002709.2
NCBI Official Full Name	serine/threonine-protein phosphatase PP1-beta catalytic subunit isoform 1
NCBI Official Synonym Full Names	protein phosphatase 1 catalytic subunit beta
NCBI Official Symbol	PPP1CB
NCBI Official Synonym Symbols	PP1B; PP-1B; PPP1CD; PP1beta; HEL-S-80p
UniProt Protein Name	Serine/threonine-protein phosphatase PP1-beta catalytic subunit
Protein Family	Serine/threonine-protein phosphatase
UniProt Gene Name	PPP1CB
UniProt Synonym Gene Names	PP-1B; PPP1CD
UniProt Entry Name	PP1B_HUMAN
NCBI Protein Information	serine/threonine-protein phosphatase PP1-beta catalytic subunit

UniProt Comments for PPP1CB	PPP1CB: is a catalytic subunit of protein phosphatase 1 (PP1), a ubiquitous cytosolic serine-threonine phosphatase. Composed a catalytic subunit (PPP1CA, PPP1CB or PPP1CC) which is folded into its native form by inhibitor 2 and glycogen synthetase kinase 3, and then complexed to one or several targeting (or regulatory) subunits: PPP1R12A and PPP1R12B mediate binding to myosin; PPP1R3A, PPP1R3B, PPP1R3C and PPP1R3D mediate binding to glycogen; and PPP1R15A and PPP1R15B mediate binding to EIF2S1. PP1 is essential for cell division, plays critical roles in many cellular processes including glycogen metabolism, muscle contractility and protein synthesis, and is involved in the regulation of ionic conductances and long-term synaptic plasticity. Inhibits the synthesis of proteins involved in synaptic plasticity. Binds to the transcription factor cyclic AMP-dependent response element binding (CREB) and dephosphorylates it. May regulate chromatin condensation through regulation of histone H3 phosphorylation. Differentially expressed in gastric cancer. May participate in the neurodegenerative progress in Alzheimer's disease. Down-regulated in lung squamous cell carcinoma. Protein type: Nucleolus; Motility/polarity/chemotaxis; EC 3.1.3.16; EC 3.1.3.53; Protein phosphatase, Ser/Thr (non-receptor) Chromosomal Location of Human Ortholog: 2p23 Cellular Component: nucleoplasm; focal adhesion; glycogen granule; nucleolus; protein phosphatase type 1 complex; nucleus Molecular Function: protein binding; myosin-light-chain-phosphatase activity; metal ion binding; phosphoric monoester hydrolase activity; myosin phosphatase activity; protein kinase binding Biological Process: regulation of cell adhesion; glycogen metabolic process; regulation of glycogen biosynthetic process; protein amino acid dephosphorylation; regulation of circadian rhythm; entrainment of circadian clock by photoperiod; regulation of glycogen catabolic process; cell division; transforming growth factor beta receptor signaling pathway; triacylglycerol catabolic process; circadian regulation of gene expression; mitotic cell cycle; G2/M transition of mitotic cell cycle; negative regulation of transforming growth factor beta receptor signaling pathway
Research Articles on PPP1CB	**1.** These results suggest a unique functional role for the PP1beta isoform in affecting cardiac contractile function
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