# PPP1CB Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | PPP1CB, Polyclonal Antibody |
| **Full Product Name** | PPP1CB (C-Term) Rabbit pAb |
| **Product Gene Name** | anti-PPP1CB antibody |
| **Product Synonym Names** | Serine/threonine-protein phosphatase PP1-beta catalytic subunit; PP-1B; PPP1CD; PPP1CB |
| **Clonality** | Polyclonal |
| **Isotype** | Ig |
| **Clone Number** | RB33955 |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Supplied in PBS with 0.09% (W/V) Sodium Azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **Purity/Purification** | Affinity Purified |
| **OMIM** | 600590 |
| **3D Structure** | ModBase 3D Structure for P62140 |
| **Immunogen** | This PPP1CB antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 298-327 amino acids from the C-terminal region of human PPP1CB. |
| **Cellular Localization** | Cytoplasm, Nucleus |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for anti-PPP1CB antibody** | Western Blot (WB) |
| **Application Notes for anti-PPP1CB antibody** | WB: 1:1000 |
| **Related Product Information for anti-PPP1CB antibody** | MBS8552130 is an antibody targeting PPP1CB. Also known as PPP1CB (C-Term) Rabbit pAb. Reactive in Human. Host: Rabbit. |
| **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. |

## ADDITIONAL DETAILS

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

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| **NCBI GI #** | 49065814 |
| **NCBI GeneID** | 5500 |
| **NCBI Accession #** | P62140.3 |
| **UniProt Primary Accession #** | P62140 |
| **UniProt Related Accession #** | P62140 |

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| **NCBI Official Full Name** | Serine/threonine-protein phosphatase PP1-beta catalytic subunit |
| **NCBI Official Synonym Full Names** | protein phosphatase 1 catalytic subunit beta |
| **NCBI Official Symbol** | PPP1CB |
| **NCBI Official Synonym Symbols** | PP1B; NSLH2; 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 |
| **NCBI Summary for PPP1CB** | 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. [provided by RefSeq, Jul 2008] |
| **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.<br><br>Protein type: Nucleolus; Motility/polarity/chemotaxis; EC 3.1.3.16; EC 3.1.3.53; Protein phosphatase, Ser/Thr (non-receptor)<br><br>Chromosomal Location of Human Ortholog: 2p23<br><br>Cellular Component: nucleoplasm; focal adhesion; glycogen granule; nucleolus; protein phosphatase type 1 complex; nucleus<br><br>Molecular Function: protein binding; myosin-light-chain-phosphatase activity; metal ion binding; phosphoric monoester hydrolase activity; myosin phosphatase activity; protein kinase binding<br><br>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.** PPP1CB mutation is associated with Noonan syndrome. |
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