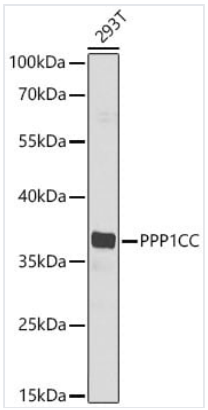
PPP1CC Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PPP1CC, Polyclonal Antibody
Full Product Name	PPP1CC Rabbit pAb
Product Gene Name	anti-PPP1CC antibody
Product Synonym Names	PP1C; PP-1G; PPP1G; PPP1CC
Immunogen Sequence	MADLDKLNID SIIQRLLEVR GSKPGKNVQL QENEIRGLCL KSREIFLSQP ILLELEAPLK ICGDIHGQYY DLLRLFEYGG FPPESNYLFL GDYVDRGKQS LETICLLLAY KIKYPENFFL LRGNHECASI NRIYGFYDEC KRRYNIKLWK TFTDCFNCLP IAAIVDEKIF CCHGGLSPDL QSMEQIRRIM RPTDVPDQGL LCDLLWSDPD KDVLGWGEND RGVSFTFGAE VVAKFLHKHD LDLICRAHQV VEDGYEFFAK RQLVTLFSAP NYCGEFDNAG AMMSVDETLM CSFQILKPAE KKKPNATRPV TPPRGMITKQ AKK
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Purity/Purification	Affinity purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	Calculated MW: 37kDa Observed MW: 37kDa
OMIM	176914
3D Structure	ModBase 3D Structure for P36873
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1-323 of human PPP1CC (NP_002701.1).
Product Categories/Family for anti-PPP1CC antibody	Epigenetics Nuclear Signaling; Translation Control; Cancer; Signal Transduction; Kinase; MAPK-Erk Signaling Pathway; Cell Biology Developmental Biology; Cell Cycle; Endocrine Metabolism; Lipid Metabolism; Insulin Receptor Signaling Pathway; Neuroscience;
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PPP1CC antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-PPP1CC antibody	WB: 1:500-1:1000 ELISA: Recommended starting concentration is 1ug/mL. Please optimize the concentration based on your specific assay requirements.
Related Product Information for anti-PPP1CC antibody	The protein encoded by this gene belongs to the protein phosphatase family, PP1 subfamily. PP1 is an ubiquitous serine/threonine phosphatase that regulates many cellular processes, including cell division. It is expressed in mammalian cells as three closely related isoforms, alpha, beta/delta and gamma, which have distinct localization patterns. This gene encodes the gamma isozyme. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Other Notes	Small volumes of anti-PPP1CC 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 PPP1CC purchase	MBS9148383 is an antibody targeting PPP1CC. Also known as PPP1CC Rabbit pAb. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-PPP1CC antibody
Western blot analysis of lysates from 293T cells using PPP1CC Rabbit pAb (MBS9148383) at 1:1000 dilution.Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.Lysates/proteins: 25 ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Enhanced Kit (RM00021).Exposure time: 60s.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PPP1CC. It may not necessarily be applicable to this product.

NCBI GI #	548573
NCBI GeneID	5501
NCBI Accession #	P36873.1
UniProt Primary Accession #	P36873
UniProt Related Accession #	P36873
UniProt Protein Name	Serine/threonine-protein phosphatase PP1-gamma catalytic subunit
UniProt Synonym Protein Names	Protein phosphatase 1C catalytic subunit
Protein Family	Serine/threonine-protein phosphatase
UniProt Gene Name	PPP1CC
UniProt Synonym Gene Names	PP-1G
UniProt Entry Name	PP1G_HUMAN

UniProt Comments for PPP1CC	PPP1CC: 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: EC 3.1.3.16; Motility/polarity/chemotaxis; Protein phosphatase, Ser/Thr (non-receptor); Nucleolus Chromosomal Location of Human Ortholog: 12q24.1-q24.2 Cellular Component: focal adhesion; protein complex; mitochondrion; cytoplasm; nucleolus; nuclear speck; midbody; cytosol; nucleus; cleavage furrow Molecular Function: protein binding; metal ion binding; phosphoric monoester hydrolase activity; protein serine/threonine phosphatase activity; phosphoprotein phosphatase activity; protein kinase binding Biological Process: glycogen metabolic process; cell division; transforming growth factor beta receptor signaling pathway; triacylglycerol catabolic process; mitotic cell cycle; circadian regulation of gene expression; regulation of circadian rhythm; protein amino acid dephosphorylation; negative regulation of transforming growth factor beta receptor signaling pathway; entrainment of circadian clock by photoperiod
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