

PPP1CC Antibody (C-term) Blocking Peptide

Synthetic peptide Catalog # BP16979b

Specification

PPP1CC Antibody (C-term) Blocking Peptide - Product Information

Primary Accession

P36873

PPP1CC Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 5501

Other Names

Serine/threonine-protein phosphatase PP1-gamma catalytic subunit, PP-1G, Protein phosphatase 1C catalytic subunit, PPP1CC

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PPP1CC Antibody (C-term) Blocking Peptide - Protein Information

Name PPP1CC

Function

Cellular Location

Cytoplasm. Nucleus. Nucleus, nucleolus. Nucleus, nucleoplasm. Nucleus speckle. Chromosome,



centromere, kinetochore. Cleavage furrow. Midbody Mitochondrion. Cytoplasm, cytoskeleton, microtubule organizing center Note=Colocalizes with SPZ1 in the nucleus (By similarity). Colocalizes with URI1 at mitochondrion (PubMed:17936702). Rapidly exchanges between the nucleolar, nucleoplasmic and cytoplasmic compartments (PubMed:11739654). Highly mobile in cells and can be relocalized through interaction with targeting subunits (PubMed:17965019). In the presence of PPP1R8 relocalizes from the nucleolus to nuclear speckles (PubMed:11739654). Shows a dynamic targeting to specific sites throughout the cell cycle (PubMed:12529430). Highly concentrated in nucleoli of interphase cells and localizes at kinetochores early in mitosis (PubMed:12529430). Relocalization to chromosome-containing regions occurs at the transition from early to late anaphase (PubMed:12529430). Also accumulates at the cleavage furrow and midbody by telophase (PubMed:12529430). Colocalizes with DYNLT4 in the microtubule organizing center (MTOC)(PubMed:23789093) {ECO:0000250|UniProtKB:P63087,

ECO:0000269|PubMed:11739654, ECO:0000269|PubMed:12529430,

ECO:0000269|PubMed:17936702, ECO:0000269|PubMed:17965019,

ECO:0000269|PubMed:23789093}

PPP1CC Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

Blocking Peptides

PPP1CC Antibody (C-term) Blocking Peptide - Images

PPP1CC Antibody (C-term) Blocking Peptide - Background

Protein phosphatase 1 (PP1) is essential for cell division, and participates in the regulation of glycogen metabolism, muscle contractility and protein synthesis. Involved in regulation of ionic conductances and long-term synaptic plasticity. May play an important role in dephosphorylating substrates such as the postsynaptic density-associated Ca(2+)/calmodulin dependent protein kinase II.

PPP1CC Antibody (C-term) Blocking Peptide - References

Lee, J.H., et al. J. Biol. Chem. 285(32):24466-24476(2010)Kuzmin, A., et al. Biol. Reprod. 81(2):319-326(2009)Fujiki, R., et al. Nature 459(7245):455-459(2009)Rogne, M., et al. Hum. Mol. Genet. 18(5):978-987(2009)Tchiviley, I., et al. J. Biol. Chem. 283(32):22193-22205(2008)