

PPP6C Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP14562b**Specification**

PPP6C Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [O00743](#)**PPP6C Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 5537**Other Names**

Serine/threonine-protein phosphatase 6 catalytic subunit, PP6C, Serine/threonine-protein phosphatase 6 catalytic subunit, N-terminally processed, PPP6C, PPP6

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.

PPP6C Antibody (C-term) Blocking Peptide - Protein Information**Name** PPP6C {ECO:0000303|PubMed:29053956, ECO:0000312|HGNC:HGNC:9323}**Function**

Catalytic subunit of protein phosphatase 6 (PP6) (PubMed:17079228, PubMed:29053956, PubMed:32474700). PP6 is a component of a signaling pathway regulating cell cycle progression in response to IL2 receptor stimulation (PubMed:10227379). N-terminal domain restricts G1 to S phase progression in cancer cells, in part through control of cyclin D1 (PubMed:17568194). During mitosis, regulates spindle positioning (PubMed:27335426). Down-regulates MAP3K7 kinase activation of the IL1 signaling pathway by dephosphorylation of MAP3K7 (PubMed:17079228). Participates also in the innate immune defense against viruses by desphosphorylating RIGI, an essential step that triggers RIGI-mediated signaling activation (PubMed:29053956). Also regulates innate immunity by acting as a negative regulator of the cGAS-STING pathway:

mediates dephosphorylation and inactivation of CGAS and STING1 (PubMed:32753499, PubMed:32474700). CGAS dephosphorylation at 'Ser-435' impairs its ability to bind GTP, thereby inactivating it (PubMed:32474700).

Cellular Location

Mitochondrion. Cytoplasm

Tissue Location

Ubiquitously expressed in all tissues tested with highest expression levels in testis, heart, kidney, brain, stomach, liver and skeletal muscle and lowest in placenta, lung colon and spleen.

PPP6C Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

PPP6C Antibody (C-term) Blocking Peptide - Images**PPP6C Antibody (C-term) Blocking Peptide - Background**

This gene encodes the catalytic subunit of proteinphosphatase, a component of a signaling pathway regulating cellcycle progression. Splice variants encoding different proteinisoforms exist. The pseudogene of this gene is located onchromosome X.

PPP6C Antibody (C-term) Blocking Peptide - References

Douglas, P., et al. Mol. Cell. Biol. 30(6):1368-1381(2010)Dema, B., et al. Genes Immun. 10(7):659-661(2009)Morales-Johansson, H., et al. PLoS ONE 4 (7), E6331 (2009) :Mi, J., et al. PLoS ONE 4 (2), E4395 (2009) :Stefansson, B., et al. Biochemistry 47(5):1442-1451(2008)