

PPP6C Antibody - C-terminal region
Rabbit Polyclonal Antibody
Catalog # AI14822**Specification**

PPP6C Antibody - C-terminal region - Product Information

Application	WB
Primary Accession	O00743
Other Accession	NP_002712
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	33kDa kDa

PPP6C Antibody - C-terminal region - Additional Information**Gene ID** 5537**Alias Symbol** **PPP6C, PPP6,**
Other Names

Serine/threonine-protein phosphatase 6 catalytic subunit, PP6C, 3.1.3.16, Serine/threonine-protein phosphatase 6 catalytic subunit, N-terminally processed, PPP6C, PPP6

Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 50 µl of distilled water. Final Anti-PPP6C antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles.

Precautions

PPP6C Antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

PPP6C Antibody - C-terminal region - Protein Information**Name** PPP6C {ECO:0000303|PubMed:29053956, ECO:0000312|HGNC:HGNC:9323}**Function**

Catalytic subunit of protein phosphatase 6 (PP6) (PubMed: [17079228](http://www.uniprot.org/citations/17079228), PubMed: [29053956](http://www.uniprot.org/citations/29053956), PubMed: [32474700](http://www.uniprot.org/citations/32474700)). PP6 is a component of a signaling pathway regulating cell cycle progression in response to IL2 receptor stimulation (PubMed: [10227379](http://www.uniprot.org/citations/10227379)). N-terminal domain restricts G1 to S phase progression in cancer cells, in part through control of cyclin D1 (PubMed: [17568194](http://www.uniprot.org/citations/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

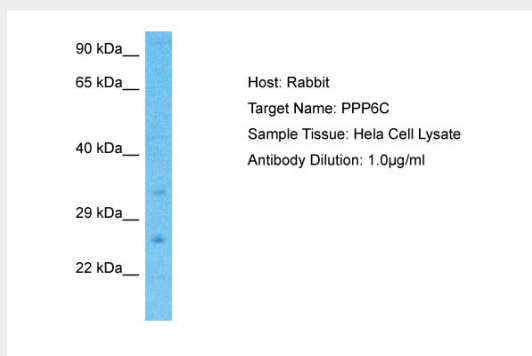
Ubiquitously expressed in all tissues tested with highest expression levels in testis, heart, kidney, brain, stomach, liver and skeletal muscle and lowest in placenta, lung colon and spleen.

PPP6C Antibody - C-terminal region - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PPP6C Antibody - C-terminal region - Images



Host: Rabbit
Target Name: PPP6C
Sample Tissue: Hela Whole Cell lysates
Antibody Dilution: 1.0µg/ml

PPP6C Antibody - C-terminal region - References

Bastians H.,et al.J. Cell Sci. 109:2865-2874(1996).
Filali M.,et al.J. Cell. Biochem. 73:153-163(1999).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Kalnine N.,et al.Submitted (OCT-2004) to the EMBL/GenBank/DDBJ databases.
Humphray S.J.,et al.Nature 429:369-374(2004).