

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

**Specification**

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**PPP6C Antibody - C-terminal region - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">O00743</a>
Other Accession	<a href="#">NP_002712</a>
Reactivity	<b>Human</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>33kDa KDa</b>

**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  $\mu$ l 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: <a href="http://www.uniprot.org/citations/17079228" target="\_blank">17079228</a>, PubMed: <a href="http://www.uniprot.org/citations/29053956" target="\_blank">29053956</a>, PubMed: <a href="http://www.uniprot.org/citations/32474700" target="\_blank">32474700</a>). PP6 is a component of a signaling pathway regulating cell cycle progression in response to IL2 receptor stimulation (PubMed: <a href="http://www.uniprot.org/citations/10227379" target="\_blank">10227379</a>). N-terminal domain restricts G1 to S phase progression in cancer cells, in part through control of cyclin D1 (PubMed: <a href="http://www.uniprot.org/citations/17568194" target="\_blank">17568194</a>). During

mitosis, regulates spindle positioning (PubMed:<a href="http://www.uniprot.org/citations/27335426" target="\_blank">27335426</a>). Down-regulates MAP3K7 kinase activation of the IL1 signaling pathway by dephosphorylation of MAP3K7 (PubMed:<a href="http://www.uniprot.org/citations/17079228" target="\_blank">17079228</a>). Participates also in the innate immune defense against viruses by desphosphorylating RIGI, an essential step that triggers RIGI-mediated signaling activation (PubMed:<a href="http://www.uniprot.org/citations/29053956" target="\_blank">29053956</a>). Also regulates innate immunity by acting as a negative regulator of the cGAS-STING pathway: mediates dephosphorylation and inactivation of CGAS and STING1 (PubMed:<a href="http://www.uniprot.org/citations/32474700" target="\_blank">32474700</a>, PubMed:<a href="http://www.uniprot.org/citations/32753499" target="\_blank">32753499</a>). CGAS dephosphorylation at 'Ser-435' impairs its ability to bind GTP, thereby inactivating it (PubMed:<a href="http://www.uniprot.org/citations/32474700" target="\_blank">32474700</a>).

### Cellular Location

Mitochondrion. Cytoplasm

### Tissue Location

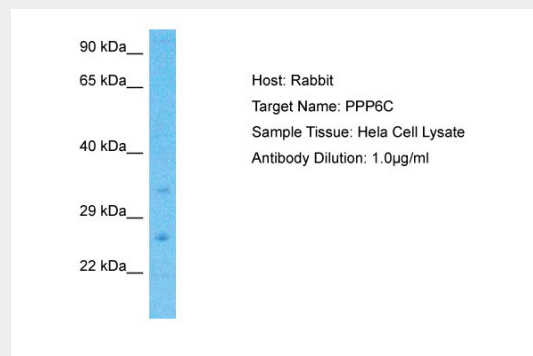
Ubiquitously expressed in all tissues tested with highest expression levels in testis, heart, kidney, brain, stomach, liver and skeletal muscle and lowest in placenta, lung colon and spleen.

## 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).