

## Anti-PPP6C Rabbit Monoclonal Antibody Catalog # ABO16174

### Specification

---

#### Anti-PPP6C Rabbit Monoclonal Antibody - Product Information

Application	WB, IF, ICC, FC
Primary Accession	<a href="#">O00743</a>
Host	Rabbit
Isotype	IgG
Reactivity	Human
Clonality	Monoclonal
Format	Liquid

#### Description

Anti-PPP6C Rabbit Monoclonal Antibody . Tested in WB, ICC/IF, Flow Cytometry applications. This antibody reacts with Human.

#### Anti-PPP6C Rabbit Monoclonal Antibody - Additional Information

Gene ID 5537

#### 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  
{ECO:0000303|PubMed:29053956, ECO:0000312|HGNC:HGNC:9323}

#### Calculated MW

32 kDa KDa

#### Application Details

WB 1:500-1:2000<br>ICC/IF 1:50-1:200<br>FC 1:50

#### Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

#### Immunogen

A synthesized peptide derived from human PPP6C

#### Purification

Affinity-chromatography

#### Storage

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

#### Anti-PPP6C Rabbit Monoclonal Antibody - 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

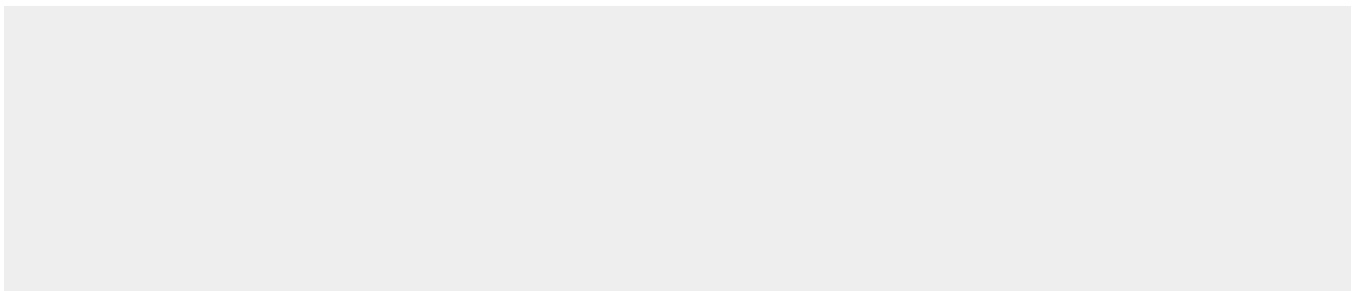
Ubiquitously expressed in all tissues tested with highest expression levels in testis, heart, kidney, brain, stomach, liver and skeletal muscle and lowest in placenta, lung colon and spleen.

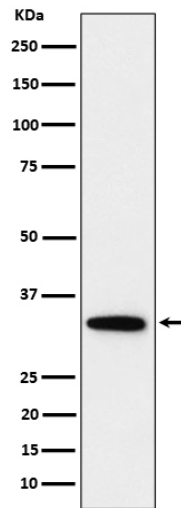
## Anti-PPP6C Rabbit Monoclonal Antibody - Protocols

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](#)

## Anti-PPP6C Rabbit Monoclonal Antibody - Images





Western blot analysis of PPP6C expression in HeLa cell lysate.