

# PPP6C Antibody

Rabbit mAb

Catalog # AP92757

## Product Information

|                          |                         |
|--------------------------|-------------------------|
| <b>Application</b>       | WB, IF, FC, ICC         |
| <b>Primary Accession</b> | <a href="#">O00743</a>  |
| <b>Reactivity</b>        | Human                   |
| <b>Clonality</b>         | Monoclonal              |
| <b>Other Names</b>       | PP6; PP6C; PPP6; Ppp6c; |
| <b>Isotype</b>           | Rabbit IgG              |
| <b>Host</b>              | Rabbit                  |
| <b>Calculated MW</b>     | 35144                   |

## Additional Information

|                                     |   |
|-------------------------------------|---|
| <b>Dilution</b>                     | WB 1:500~1:2000 ICC/IF 1:50~1:200 FC 1:50   |
| <b>Purification</b>                 | Affinity-chromatography   |
| <b>Immunogen</b>                    | A synthesized peptide derived from human PPP6C  |
| <b>Description</b>                  | Catalytic subunit of protein phosphatase 6 (PP6). PP6 is a component of a signaling pathway regulating cell cycle progression in response to IL2 receptor stimulation.            |
| <b>Storage Condition and Buffer</b> | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle. |

## Protein Information

|                 |   |
|-----------------|---|
| <b>Name</b>     | PPP6C {ECO:0000303   PubMed:29053956, ECO:0000312   HGNC:HGNC:9323}   |
| <b>Function</b> | Catalytic subunit of protein phosphatase 6 (PP6) (PubMed: <a href="#">17079228</a> , PubMed: <a href="#">29053956</a> , PubMed: <a href="#">32474700</a> ). PP6 is a component of a signaling pathway regulating cell cycle progression in response to IL2 receptor stimulation (PubMed: <a href="#">10227379</a> ). N-terminal domain restricts G1 to S phase progression in cancer cells, in part through control of cyclin D1 (PubMed: <a href="#">17568194</a> ). During mitosis, regulates spindle positioning (PubMed: <a href="#">27335426</a> ). Down-regulates MAP3K7 kinase activation of the IL1 signaling pathway by dephosphorylation of MAP3K7 (PubMed: <a href="#">17079228</a> ). Also participates in the innate immune defense against viruses by desphosphorylating RIGI, an essential step that triggers RIGI-mediated signaling activation (PubMed: <a href="#">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="#">32474700</a> , PubMed: <a href="#">32753499</a> ). CGAS dephosphorylation at 'Ser-435' impairs its ability to bind GTP, thereby inactivating it (PubMed: <a href="#">32474700</a> ). |

**Cellular Location**

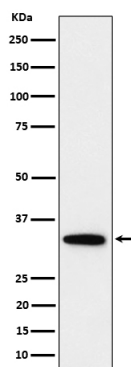
Mitochondrion. Cytoplasm

**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.

**Images**

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Western blot analysis of PPP6C expression in HeLa cell lysate.

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