

INPP4A Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP56354

Specification

INPP4A Polyclonal Antibody - Product Information

Application	WB, IHC-P, IHC-F, IF, ICC
Primary Accession	Q96PE3
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	109956

INPP4A Polyclonal Antibody - Additional Information

Gene ID 3631

Other Names

Inositol polyphosphate-4-phosphatase type I A {ECO:0000312|HGNC:HGNC:6074}, Inositol polyphosphate 4-phosphatase type I, Type I inositol 3, 4-bisphosphate 4-phosphatase, 3.1.3.66, INPP4A

Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

INPP4A Polyclonal Antibody - Protein Information

Name INPP4A

Function

Catalyzes the hydrolysis of the 4-position phosphate of phosphatidylinositol 3,4-bisphosphate (PtdIns(3,4)P2) (PubMed: [20463662](http://www.uniprot.org/citations/20463662), PubMed: [15716355](http://www.uniprot.org/citations/15716355)). Catalyzes also inositol 1,3,4-trisphosphate and inositol 1,4-bisphosphate (By similarity). Antagonizes the PI3K-AKT/PKB signaling pathway by dephosphorylating phosphoinositides and thereby modulating cell cycle progression and cell survival (PubMed: [30071275](http://www.uniprot.org/citations/30071275)) (By similarity). May protect neurons from excitotoxic cell death by regulating the synaptic localization of cell surface N-methyl-D- aspartate-type glutamate receptors (NMDARs) and NMDAR-mediated excitatory postsynaptic current (By similarity).

Cellular Location

Early endosome membrane. Recycling endosome membrane. Cell membrane. Nucleus Cytoplasm. Postsynaptic density {ECO:0000250|UniProtKB:Q9EPW0}. Note=Translocates to the plasma

membrane upon EGF stimulation (PubMed:15716355). Shuttles between the cytoplasm and the nucleus, depending on the cell cycle stage, with highest amounts detected in the nucleus during the G0/G1phase (PubMed:30071275).

Tissue Location

Isoform 1 is expressed in the platelets, MEG-01 megakaryocytes and Jurkat T-cells. Isoform 2 is expressed in the brain

INPP4A Polyclonal 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](#)

INPP4A Polyclonal Antibody - Images