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INPP4A Antibody (C-term) Blocking peptide

Synthetic peptide
Catalog # BP10183b

Specification

INPP4A Antibody (C-term) Blocking peptide - Product Information

Primary Accession	Q96PE3
Other Accession	NP_001127697.1, NP_001127696.1, NP_004018.1, NP_001557.1

INPP4A Antibody (C-term) Blocking peptide - Additional Information

Gene ID 3631

Other Names
Type I inositol 3, 4-bisphosphate 4-phosphatase, Inositol polyphosphate 4-phosphatase type I, INPP4A

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

INPP4A Antibody (C-term) Blocking peptide - Protein Information

Name INPP4A

Function
Catalyzes the hydrolysis of the 4-position phosphate of phosphatidylinositol 3,4-bisphosphate (PtdIns(3,4)P2) (PubMed:20463662, PubMed: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) (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 Antibody (C-term) Blocking peptide - Protocols

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

- Blocking Peptides

INPP4A Antibody (C-term) Blocking peptide - Images

INPP4A Antibody (C-term) Blocking peptide - Background

This gene encodes an Mg++ independent enzyme thathydrolyzes the 4-position phosphate from the inositol ring ofphosphatidylinositol 3,4-bisphosphate, inositol1,3,4-trisphosphate, and inositol 3,4-bisphosphate. Multipletranscript variants encoding distinct isoforms have been described.

INPP4A Antibody (C-term) Blocking peptide - References

Sasaki, J., et al. Nature 465(7297):497-501(2010)Rogers, A.J., et al. Am. J. Respir. Crit. Care Med. 179(12):1084-1090(2009)Kobayashi, S., et al. DNA Res. 15(4):253-265(2008)Sharma, M., et al. Am. J. Respir. Crit. Care Med. 177(7):712-719(2008)Hillier, L.W., et al. Nature 434(7034):724-731(2005)