

INPP4B Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP8902c

Specification

INPP4B Antibody (Center) - Product Information

Application WB, IHC-P, FC,E

Primary Accession <u>015327</u>

Other Accession <u>O9QWG5</u>, <u>O6P1Y8</u>, <u>O4R4D7</u>

Reactivity Human

Predicted Monkey, Mouse, Rat

Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG
Calculated MW 104738
Antigen Region 367-393

INPP4B Antibody (Center) - Additional Information

Gene ID 8821

Other Names

Type II inositol 3, 4-bisphosphate 4-phosphatase, Inositol polyphosphate 4-phosphatase type II, INPP4B

Target/Specificity

This INPP4B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 367-393 amino acids from the Central region of human INPP4B.

Dilution

WB~~1:500 IHC-P~~1:50~100 FC~~1:10~50

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

INPP4B Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

INPP4B Antibody (Center) - Protein Information





Name INPP4B

Function Catalyzes the hydrolysis of the 4-position phosphate of phosphatidylinositol 3,4-bisphosphate, inositol 1,3,4-trisphosphate and inositol 3,4-trisphosphate (PubMed:24070612, PubMed:24591580). Plays a role in the late stages of macropinocytosis by dephosphorylating phosphatidylinositol 3,4-bisphosphate in membrane ruffles (PubMed:24591580). The lipid phosphatase activity is critical for tumor suppressor function. Antagonizes the PI3K-AKT/PKB signaling pathway by dephosphorylating phosphoinositides and thereby modulating cell cycle progression and cell survival (PubMed:19647222, PubMed:24070612).

Tissue Location

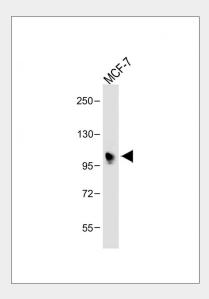
Widely expressed with highest levels occurring in the skeletal muscle and heart.

INPP4B Antibody (Center) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

INPP4B Antibody (Center) - Images

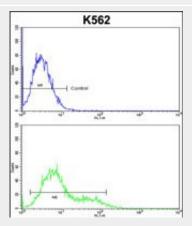


Anti-INPP4B Antibody (Center) at 1:500 dilution + MCF-7 whole cell lysate Lysates/proteins at 20 μ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 105 kDa Blocking/Dilution buffer: 5% NFDM/TBST.





Formalin-fixed and paraffin-embedded human brain tissue reacted with INPP4B Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



INPP4B Antibody (Center) (Cat. #AP8902c) flow cytometric analysis of k562 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

INPP4B Antibody (Center) - Background

INPP4B catalyzes the hydrolysis of the 4-position phosphate of phosphatidylinositol 3,4-bisphosphate, inositol 1,3,4-trisphosphate and inositol 1,4-bisphosphate.

INPP4B Antibody (Center) - References

Norris F.A., et.al., J. Biol. Chem. 272:23859-23864(1997).