10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

INPP4B Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8902c

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	O15327
Other Accession	Q9QWG5, Q6P1Y8, Q4R4D7
Reactivity	Human, Rat, Mouse
Predicted	Mouse, Rat, Monkey, Bovine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB22321
Calculated MW	104738
Antigen Region	367-393

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~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
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.

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.

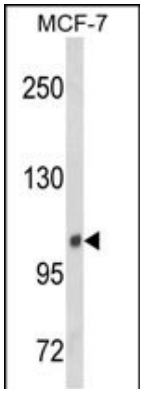
Background

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

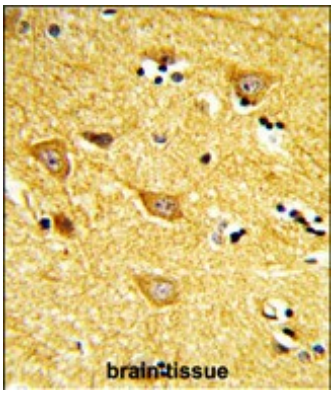
References

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

Images

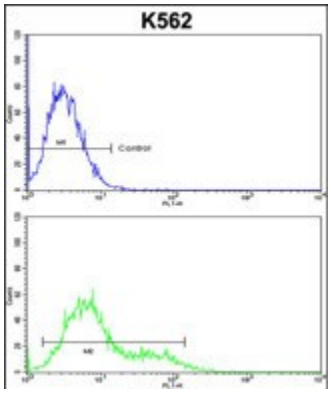


Western blot analysis of INPP4B Antibody (Center) (Cat. #AP8902c) in MCF-7 cell line lysates (35ug/lane). INPP4B (arrow) was detected using the purified Pab.



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.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.