

For Research Use Only

INPP5J Polyclonal antibody

Catalog Number: 21417-1-AP **2 Publications**



Basic Information

Catalog Number: 21417-1-AP	GenBank Accession Number: BC109288	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 200 µg/ml by Nanodrop and 167 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 27124	Recommended Dilutions: WB 1:500-1:1000 IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
Source: Rabbit	Full Name: inositol polyphosphate-5-phosphatase J	IHC 1:20-1:200 IF 1:50-1:500
Isotype: IgG	Calculated MW: 1006 aa, 107 kDa	
Immunogen Catalog Number: AG15996	Observed MW: 107 kDa, 70 kDa	

Applications

Tested Applications: IF, IHC, IP, WB, ELISA	Positive Controls:
Cited Applications: IHC, WB	WB: human heart tissue, mouse lung tissue
Species Specificity: human, mouse, rat	IP: mouse lung tissue,
Cited Species: human	IHC: human kidney tissue, human heart tissue
	IF: HeLa cells,

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

INPP5J (Phosphatidylinositol 4,5-bisphosphate 5-phosphatase A) is also named as PIB5PA, PIPP and belongs to the inositol 1,4,5-trisphosphate 5-phosphatase type II family. INPP5J is a key signalling molecule that regulates dendritic outgrowth through activation of small GTPase signalling via interaction between FRMPD4 and ARHGEF7. It can control the resting membrane potential through a specific ion-channel-receptor-ligand interaction that brings about a large conformational change, analogous to neurotransmitter activation of ion channels at synapses. (PMID:22595022). This protein has 3 isoforms produced by alternative splicing.

Notable Publications

Author	Pubmed ID	Journal	Application
Tongyu Zhu	26282217	Biomed Pharmacother	WB
Chuyong Lin	25099196	Nat Commun	WB, IHC

Storage

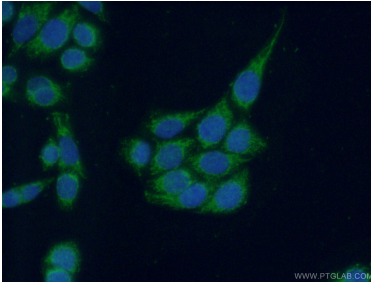
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

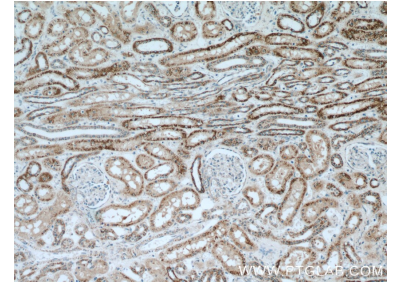
Selected Validation Data



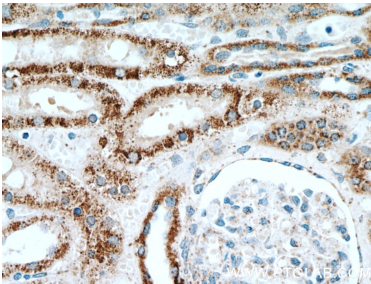
Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using 21417-1-AP (INPP5J antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



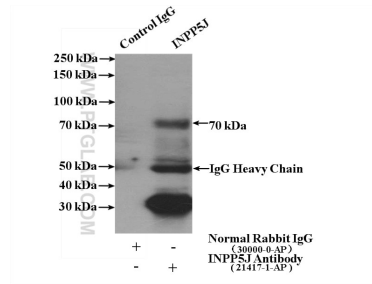
human heart tissue were subjected to SDS PAGE followed by western blot with 21417-1-AP (INPP5J antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human kidney using 21417-1-AP (INPP5J antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human kidney using 21417-1-AP (INPP5J antibody) at dilution of 1:50 (under 40x lens).



IP Result of anti-INPP5J (IP:21417-1-AP, 4ug; Detection:21417-1-AP 1:500) with mouse lung tissue lysate 4000ug.