

For Research Use Only

INPP5J Polyclonal antibody

Catalog Number: 21417-1-AP

Featured Product

3 Publications



Basic Information

Catalog Number:

21417-1-AP

Size:

150ul, Concentration: 200 ug/ml by Nanodrop and 167 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG15996

GenBank Accession Number:

BC109288

GeneID (NCBI):

27124

UNIPROT ID:

Q15735

Full Name:

inositol polyphosphate-5-phosphatase J

Calculated MW:

1006 aa, 107 kDa

Observed MW:

107 kDa, 70 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IF, IHC

Species Specificity:

human, mouse, rat

Cited Species:

human

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

Positive Controls:

WB: human heart tissue, mouse lung tissue

IP: mouse lung tissue,

IHC: human kidney tissue, human heart tissue

IF/ICC: HeLa cells,

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
Wenyang Zhou	38685520	Cell Signal	WB,IHC,IF

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

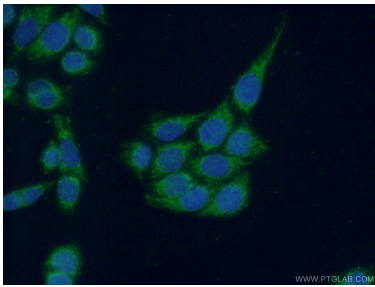
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

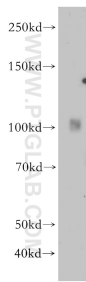
E: proteintech@ptglab.com
W: ptglab.com

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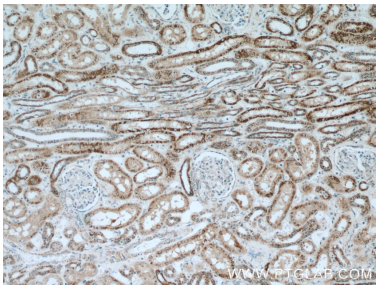
Selected Validation Data



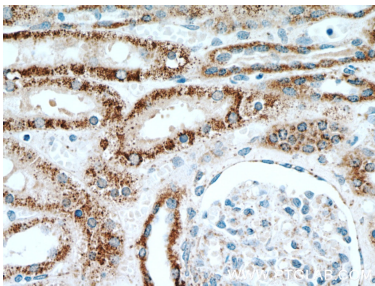
Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using 21417-1-AP (INPP5J antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).



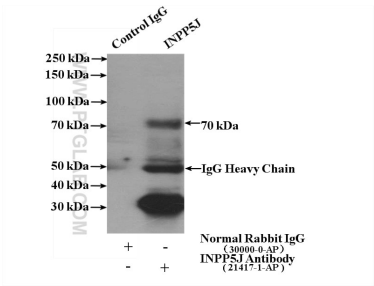
human heart tissue were subjected to SDS PAGE followed by western blot with 21417-1-AP (INPP5J antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



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.