For Research Use Only

INPP5E Polyclonal antibody

Catalog Number:17797-1-AP Featured Product 45 Publications

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Basic Information

Catalog Number:
17797-1-AP

Size:
150ul , Concentration: 550 µg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG11959

GenBank Accession Number:
BC028032

GeneID (NCBI):
56623

UNIPROT ID:
Q9NRR6

Full Name:
inositol polyphosphate-5-phosphatase, 72 kDa

Calculated MW:
644 aa, 70 kDa

Observed MW:
64-66 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:20-1:200
IF 1:20-1:200

Applications

Tested Applications:
WB, IP, IF, IHC, ELISA

Cited Applications:
WB, IF, IHC, CoIP

Species Specificity:
human, rat, mouse

Cited Species:
human, mouse, zebrafish

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 : SH-SY5Y cells, HEK-293 cells, mouse brain tissue, mouse testis tissue

IP : HEK-293 cells,

IHC : human testis tissue, human kidney tissue, human placenta tissue, human spleen tissue

IF : hTERT-RPE1 cells,

Background Information

INPP5E(72 kDa inositol polyphosphate 5-phosphatase) converts phosphatidylinositol 3,4,5-trisphosphate (PtdIns 3,4,5-P3) to PtdIns-P2.In mouse, highest protein expression was in brain, heart, and testis, with lower expression in thymus and lung, and very little expression in kidney, spleen, and liver(PMID:10764818). Defects in INPP5E are the cause of Joubert syndrome type 1 (JBTS1) and mental retardation-truncal obesity-retinal dystrophy-micropenis (MORMS)(PMID:19668215). It has 2 isoforms with the molecular mass of 66 kDa and 70 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Sumaya Alkanderi	30269812	Am J Hum Genet	IF
Dario Cilleros-Rodriguez	36063381	Elife	IF
Christin Hanke-Gogokhia	29089384	J Biol Chem	

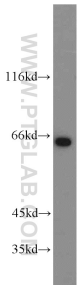
Storage

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

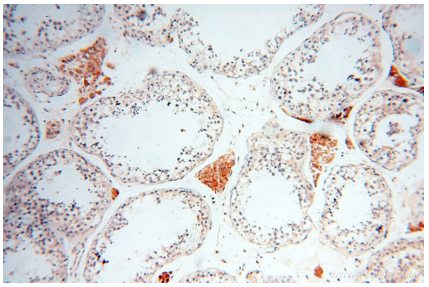
***** 20ul sizes contain 0.1% BSA**

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

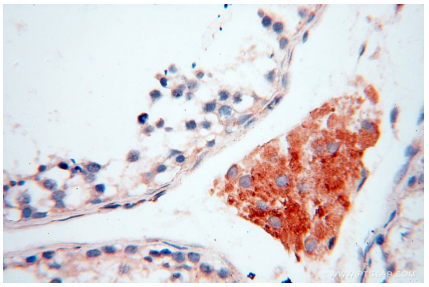
Selected Validation Data



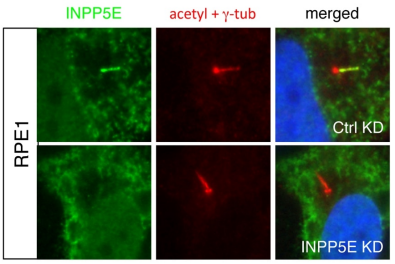
SH-SY5Y cells were subjected to SDS PAGE followed by western blot with 17797-1-AP (INPP5E antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



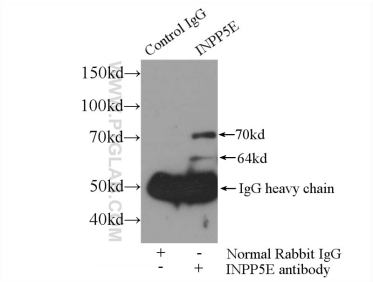
Immunohistochemical analysis of paraffin-embedded human testis using 17797-1-AP (INPP5E antibody) at dilution of 1:50 (under 10x lens).



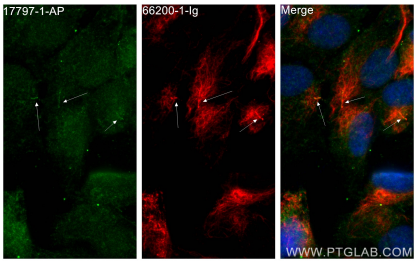
Immunohistochemical analysis of paraffin-embedded human testis using 17797-1-AP (INPP5E antibody) at dilution of 1:50 (under 40x lens).



IF result of ciliary INPP5E in human hTERT-RPE1 cell: Upper is from control siRNA transfected cells and bottom is from INPP5E siRNA transfected cells. 17797-1-AP specifically recognizes the ciliary INPP5E (From Dr.Seongjin Seo).



IP result of anti-INPP5E (IP:17797-1-AP, 3ug; Detection:17797-1-AP 1:1000) with HEK-293 cells lysate 1000ug.



Immunofluorescent analysis of (4% PFA) fixed hTERT-RPE1 cells using INPP5E antibody (17797-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), acetylated Tubulin(Lys40) antibody (66200-1-Ig, Clone: 7E5H8, red).