

For Research Use Only

ITPKA Polyclonal antibody

Catalog Number: 14270-1-AP

Featured Product

10 Publications



Basic Information

Catalog Number:

14270-1-AP

Size:

150ul, Concentration: 200 ug/ml by Nanodrop and 180 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG5588

GenBank Accession Number:

BC026331

GeneID (NCBI):

3706

UNIPROT ID:

P23677

Full Name:

inositol 1,4,5-trisphosphate 3-kinase A

Calculated MW:

51 kDa

Observed MW:

51 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:3200

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

IHC 1:100-1:400

IF/ICC 1:20-1:200

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

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 : mouse brain tissue,

IP : mouse brain tissue,

IHC : human gliomas tissue,

IF/ICC : HepG2 cells,

Background Information

ITPKA (Inositol-trisphosphate 3-kinase A) belongs to the inositol phosphokinase (IPK) family. It accumulates in dendritic spines and seems to be critically involved in synaptic plasticity. The protein possesses two functional activities. In neurons, ITPKA is targeted to F-actin via an N-terminal actin binding domain (amino acids 1-66) and is relevant for long term potentiation and spatial learning (PMID:20022963).

Notable Publications

Author	Pubmed ID	Journal	Application
Windhorst Sabine S	21792881	Int J Cancer	WB, IHC
Maohua Liu	29375702	Exp Ther Med	WB
Jingyun Liu	36558932	Pharmaceuticals (Basel)	WB

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

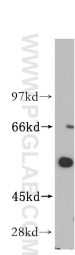
For technical support and original validation data for this product please contact:

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

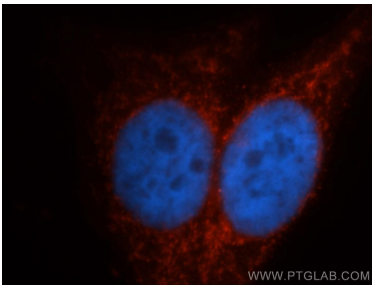
E: proteintech@ptglab.com
W: ptglab.com

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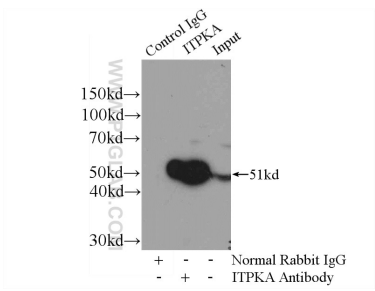
Selected Validation Data



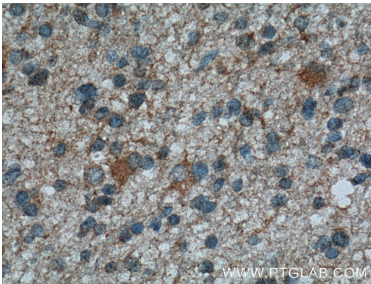
mouse brain tissue were subjected to SDS PAGE followed by western blot with 14270-1-AP (ITPKA antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



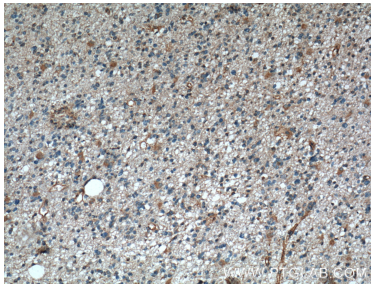
Immunofluorescent analysis of HepG2 cells, using ITPKA antibody 14270-1-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



IP result of anti-ITPKA (IP:14270-1-AP, 4ug; Detection:14270-1-AP 1:400) with mouse brain tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 14270-1-AP (ITPKA Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 14270-1-AP (ITPKA Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).