

ITPKA Polyclonal Antibody

Catalog number: 14270-1-AP

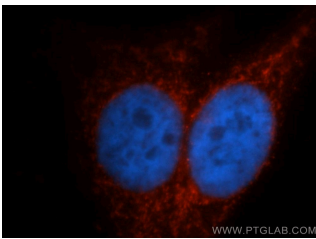
Size: 27 µg/150 µl

Source: Rabbit

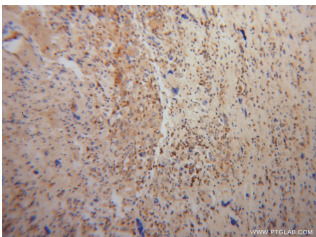
Isotype: IgG

Synonyms:

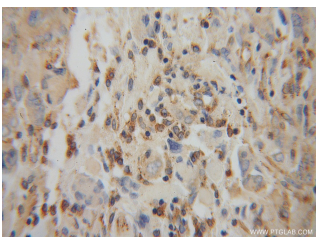
ITPKA; InsP 3 kinase A, IP3 3 kinase A, IP3K A, IP3KA, ITPKA



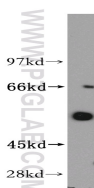
Immunofluorescent analysis of HepG2 cells, using ITPKA antibody 14270-1-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



Immunohistochemical of paraffin-embedded human gliomas using 14270-1-AP (ITPKA antibody) at dilution of 1:100 (under 10x lens)



Immunohistochemical of paraffin-embedded human gliomas using 14270-1-AP (ITPKA antibody) at dilution of 1:100 (under 40x lens)



mouse brain tissue were subjected to SDS PAGE

Background

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).

Applications

Tested applications:	ELISA, WB, IHC, IF, IP
Cited applications:	IHC, WB
Species specificity:	Human, Mouse, Rat; other species not tested.
Cited species:	Human
Calculated ITPKA MW:	51 kDa
Observed ITPKA MW:	51 kDa
Positive WB detected in	Mouse brain tissue
Positive IP detected in	Mouse brain tissue
Positive IHC detected in	Human gliomas tissue
Positive IF detected in	HepG2 cells
Recommended dilution:	WB: 1:500-1:5000
	IP: 1:200-1:1000
	IHC: 1:20-1:200
	IF: 1:20-1:200

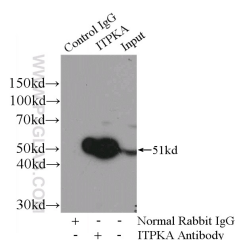
Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag5588
GenBank accession number:	BC026331
Gene ID (NCBI):	3706
Full name:	Inositol 1,4,5-trisphosphate 3-kinase A

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C.



IP Result of anti-ITPKA
(IP:14270-1-AP, 4ug;

followed by western blot with 14270-1-AP(ITPKA antibody) at dilution of 1:500
Detection:14270-1-AP 1:400) with mouse brain tissue lysate 4000ug.