

For Research Use Only

# ITPKC Polyclonal antibody

Catalog Number: 14267-1-AP



## Basic Information

### Catalog Number:

14267-1-AP

### Size:

150ul, Concentration: 307 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG5583

### GenBank Accession Number:

BC060788

### GeneID (NCBI):

80271

### UNIPROT ID:

Q96DU7

### Full Name:

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

### Calculated MW:

75 kDa

### Observed MW:

100-105 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 1:50-1:500

IF/ICC 1:20-1:200

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Species Specificity:

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 : MDA-MB-453s cells, human heart tissue

IP : HepG2 cells,

IHC : human breast cancer tissue, human heart tissue, human lymphoma tissue

IF/ICC : HepG2 cells,

## Background Information

ITPKC(Inositol-trisphosphate 3-kinase C) is also named as IP3KC and belongs to the inositol phosphokinase (IPK) family. It can phosphorylate inositol 2,4,5-trisphosphate to inositol 2,4,5,6-tetraphosphate and is relatively weakly activated by the calcium-calmodulin complex. ITPKC also acts as a negative regulator of T-cell activation through the Ca(2+)/NFAT signaling pathway, and the C allele may contribute to immune hyperreactivity in Kawasaki disease(PMID:17160344).

## 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

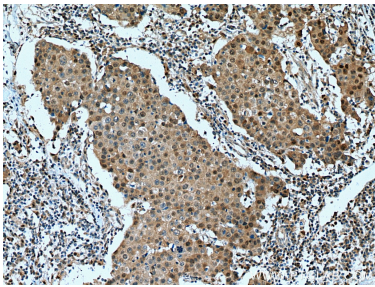
For technical support and original validation data for this product please contact:

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

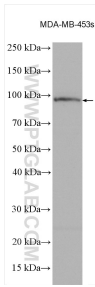
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

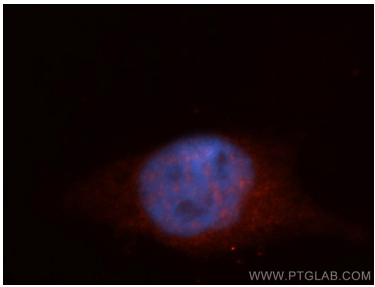
Selected Validation Data



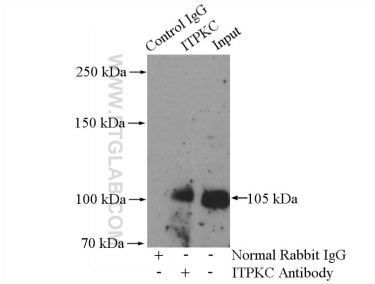
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 14267-1-AP (ITPKC antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



MDA-MB-453s cells were subjected to SDS PAGE followed by western blot with 14267-1-AP (ITPKC antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of HepG2 cells, using ITPKC antibody 14267-1-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



IP result of anti-ITPKC (IP:14267-1-AP, 4ug; Detection:14267-1-AP 1:400) with HepG2 cells lysate 1600ug.