

For Research Use Only

# PI4KA Polyclonal antibody

Catalog Number: 12411-1-AP

Featured Product

12 Publications



## Basic Information

### Catalog Number:

12411-1-AP

### Size:

150ul, Concentration: 500 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG3062

### GenBank Accession Number:

BC018120

### GeneID (NCBI):

5297

### UNIPROT ID:

P42356

### Full Name:

phosphatidylinositol 4-kinase, catalytic, alpha

### Calculated MW:

2044 aa, 231 kDa

### Observed MW:

231 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:4000

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

IHC 1:50-1:500

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse

### Positive Controls:

WB: HeLa cells, mouse brain tissue, human brain tissue, MCF-7 cells, NIH-3T3 cells (RNAi), rat brain tissue

IP: mouse brain tissue,

IHC: human placenta tissue,

IF/ICC: MCF-7 cells,

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

## Background Information

PI4KA, also named as PIK4, PIK4CA, belongs to the PI3/PI4-kinase family and Type III PI4K subfamily. It acts on phosphatidylinositol (PtdIns) in the first committed step in the production of the second messenger inositol-1,4,5-trisphosphate. PI4KA plays a role in the formation of membrane complexes where HCV replication takes place. (PMID:19605471).

## Notable Publications

Author	Pubmed ID	Journal	Application
Jay Xiaojun Tan	36071159	Nature	WB
Xiuxing Jiang	36276647	Theranostics	WB
Ming Gao	28351005	Biomaterials	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

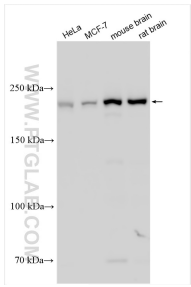
For technical support and original validation data for this product please contact:

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

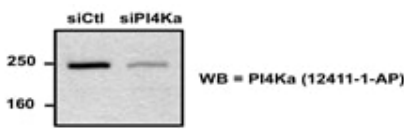
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

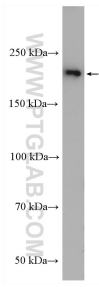
Selected Validation Data



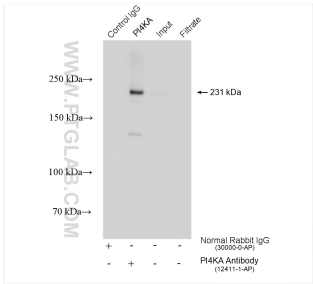
Various lysates were subjected to SDS PAGE followed by western blot with 12411-1-AP (PI4KA antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



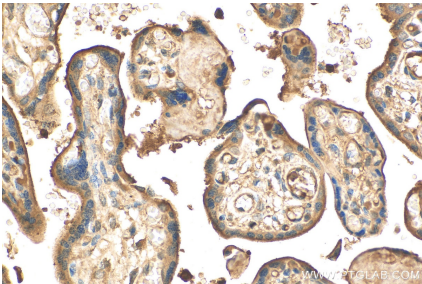
WB result of anti- PI4KA (12411-1-AP) with NIH-3T3 cells (RNAi).



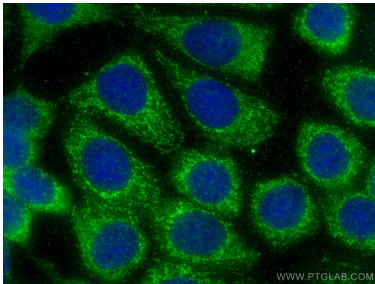
MCF-7 cells were subjected to SDS PAGE followed by western blot with 12411-1-AP (PI4KA antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



IP result of anti-PI4KA (IP:12411-1-AP, 4ug; Detection:12411-1-AP 1:3000) with mouse brain tissue lysate 1080 ug.



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 12411-1-AP (PI4KA antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using PI4KA antibody (12411-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).