

For Research Use Only

# PI4KA Polyclonal antibody

Catalog Number: 12411-1-AP

Featured Product

12 Publications



## Basic Information

### Catalog Number:

12411-1-AP

### Size:

500 ug/ml

### 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

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

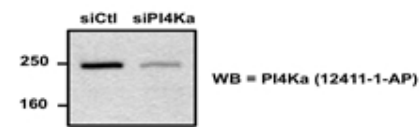
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

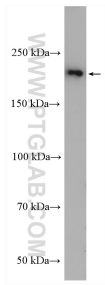
W: [ptgcn.com](http://ptgcn.com)

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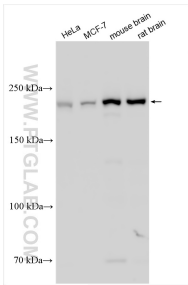
Selected Validation Data



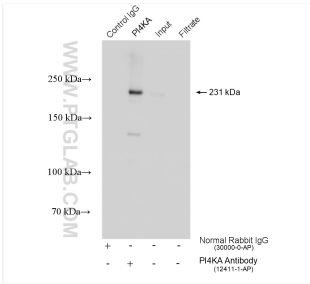
WB result of anti- PI4Ka (12411-1-AP) with NIH-3T3 cells (RNAi).



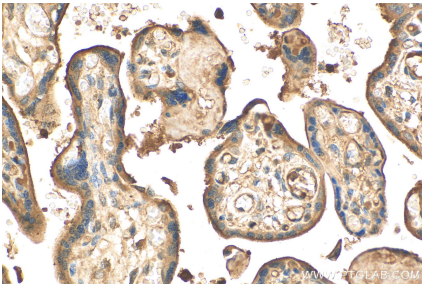
MCF-7 cells were subjected to SDS PAGE followed by western blot with 12411-1-AP (PI4KA antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



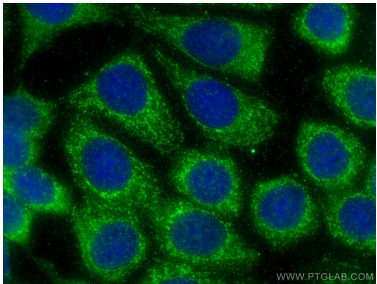
Various lysates were subjected to SDS PAGE followed by western blot with 12411-1-AP (PI4KA antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



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).