

For Research Use Only

# AKAP7 Polyclonal antibody

Catalog Number: 12591-1-AP

Featured Product

5 Publications



## Basic Information

### Catalog Number:

12591-1-AP

### Size:

150ul, Concentration: 500 ug/ml by Nanodrop and 253 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG3297

### GenBank Accession Number:

BC016927

### GeneID (NCBI):

9465

### UNIPROT ID:

O43687

### Full Name:

A kinase (PRKA) anchor protein 7

### Calculated MW:

81 aa, 9 kDa

### Observed MW:

11 kDa, 18 kDa, 37 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 1:20-1:200

IF/ICC 1:10-1:100

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, ColP, 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 : human brain tissue,

IP : mouse brain tissue,

IHC : human brain tissue, human heart tissue

IF/ICC : HepG2 cells,

## Background Information

AKAP7, also named as AKAP15 and AKAP18, localize PKA in complexes with CaV1.2 and PLN, respectively. AKAP7 targets the cAMP-dependent protein kinase (PKA) to the plasma membrane, and permits functional coupling to the L-type calcium channel. AKAP7 has short isoform AKAP7 alpha and AKAP7 beta with MW 15-18 kDa; long isoform AKAP7 gamma with MW 37-42 kDa. AKAP7alpha was highly expressed only in brain and weakly in lung lysates from WT animals. This antibody can recognize all the isoforms of AKAP7.

## Notable Publications

Author	Pubmed ID	Journal	Application
Hongmei Lu	31384238	Clin Proteomics	WB
Brian W Jones	27911261	Elife	WB,IF
Ping Lai	38099489	Cardiovasc Res	ColP

## 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

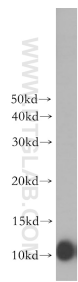
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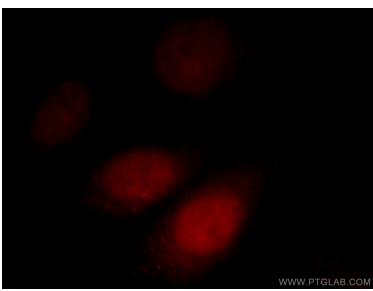
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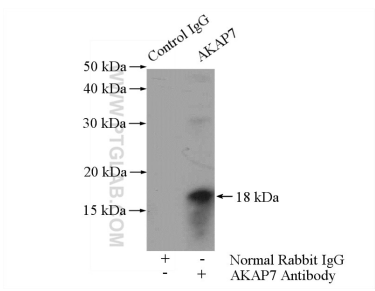
Selected Validation Data



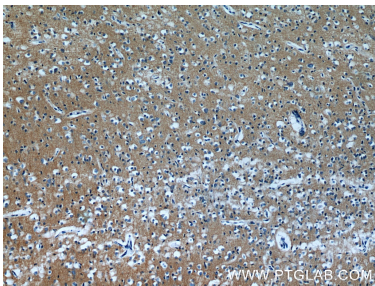
human brain tissue were subjected to SDS PAGE followed by western blot with 12591-1-AP (AKAP7 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



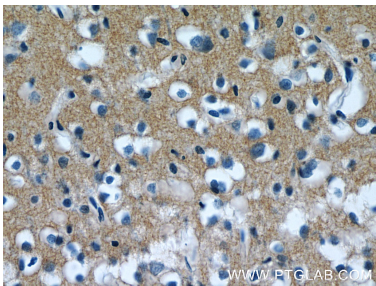
Immunofluorescent analysis of HepG2 cells, using AKAP7 antibody 12591-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



IP result of anti-AKAP7 (IP:12591-1-AP, 4ug; Detection:12591-1-AP 1:300) with mouse brain tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 12591-1-AP (AKAP7 Antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 12591-1-AP (AKAP7 Antibody) at dilution of 1:50 (under 40x lens).