

For Research Use Only

# PRKACB Polyclonal antibody

Catalog Number: 12232-1-AP

6 Publications



## Basic Information

### Catalog Number:

12232-1-AP

### Size:

150ul, Concentration: 550 ug/ml by Nanodrop and 333 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG2870

### GenBank Accession Number:

BC016285

### GeneID (NCBI):

5567

### UNIPROT ID:

P22694

### Full Name:

protein kinase, cAMP-dependent, catalytic, beta

### Calculated MW:

41 kDa, 46 kDa

### Observed MW:

36-55 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 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat

### Positive Controls:

WB : MCF-7 cells, A549 cells, HT-1080 cells, mouse brain tissue, mouse heart tissue, PC-3 cells

IP : mouse brain tissue,

IHC : mouse brain tissue, human medulloblastoma tissue

IF/ICC : HeLa 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

PRKACB, also named as PKA C-beta, belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family and cAMP subfamily. It mediates cAMP-dependent signaling triggered by receptor binding to GPCRs. PKA activation regulates diverse cellular processes such as cell proliferation, the cell cycle, differentiation and regulation of microtubule dynamics, chromatin condensation and decondensation, nuclear envelope disassembly and reassembly, as well as regulation of intracellular transport mechanisms and ion flux.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yang Fu	35658231	Biomed Pharmacother	WB
Yongxia Wang	31998791	Biomed Res Int	WB
Fan Wu	36012545	Int J Mol Sci	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

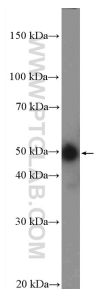
For technical support and original validation data for this product please contact:

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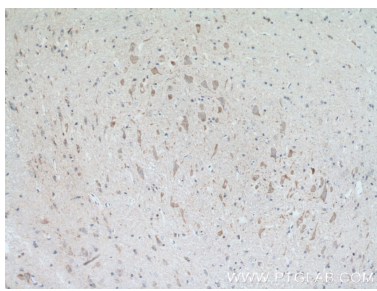
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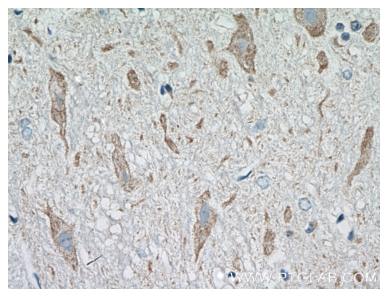
Selected Validation Data



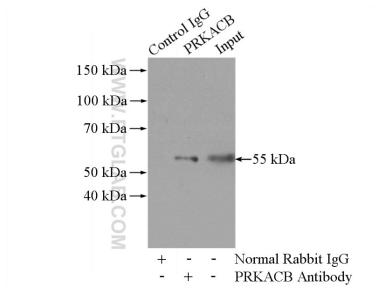
MCF-7 cells were subjected to SDS PAGE followed by western blot with 12232-1-AP (PRKACB Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



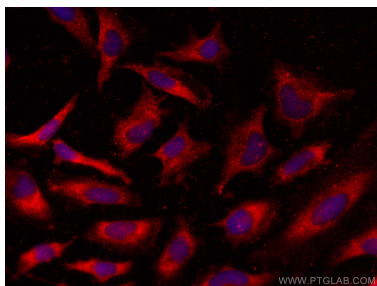
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 12232-1-AP (PRKACB antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 12232-1-AP (PRKACB antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-PRKACB (IP:12232-1-AP, 4ug; Detection:12232-1-AP 1:500) with mouse brain tissue lysate 2640ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using PRKACB antibody (12232-1-AP) at dilution of 1:200 and Coralite®594-Conjugated Goat Anti-Rabbit IgG(H+L).