

For Research Use Only

# PRKACB Polyclonal antibody

Catalog Number: 55382-1-AP

24 Publications



## Basic Information

Catalog Number:

55382-1-AP

Concentration:

400 µg/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM\_002731

GeneID (NCBI):

5567

UNIPROT ID:

P22694

Full Name:

protein kinase, cAMP-dependent,  
catalytic, beta

Calculated MW:

46 kDa

Observed MW:

36-55 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IHC 1:20-1:200

## Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

**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 : mouse brain tissue, human brain tissue

IHC : human kidney tissue,

## 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. This antibody is specific to PRKACB.

## Notable Publications

Author	Pubmed ID	Journal	Application
Qianyun Nie	36267753	Ann Transl Med	WB
Zhi Li	34632888	Br J Neurosurg	IHC
Zhiyuan Sun	36230759	Cancers (Basel)	WB

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

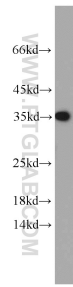
T: 4006900926

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

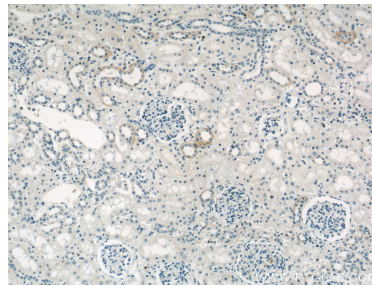
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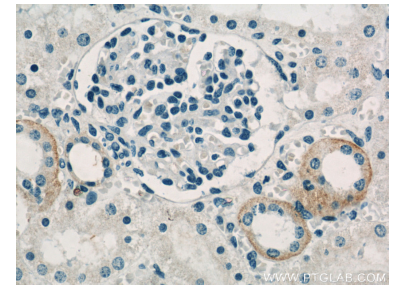
## Selected Validation Data



mouse brain tissue were subjected to SDS PAGE followed by western blot with 55382-1-AP (PKA C-beta-specific antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human kidney slide using 55382-1-AP (PKA C-beta-specific antibody at dilution of 1:50).



Immunohistochemical analysis of paraffin-embedded human kidney slide using 55382-1-AP (PKA C-beta-specific antibody at dilution of 1:50).