

For Research Use Only

# CAMKK1 Polyclonal antibody

Catalog Number: 13624-1-AP



## Basic Information

### Catalog Number:

13624-1-AP

### Size:

150ul, Concentration: 750 ug/ml by Nanodrop and 327 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG4534

### GenBank Accession Number:

BC031647

### GeneID (NCBI):

84254

### UNIPROT ID:

Q8N5S9

### Full Name:

calcium/calmodulin-dependent protein kinase kinase 1, alpha

### Calculated MW:

520 aa, 57 kDa

### Observed MW:

63 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

## Applications

### Tested Applications:

WB, IHC, IP, ELISA

### Species Specificity:

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: Jurkat cells,

IP: Jurkat cells,

IHC: human stomach tissue,

## Background Information

Calcium/calmodulin-dependent protein kinase kinase 1 catalyzes the phosphorylation and activation of Ca(2+)/calmodulin kinase (CaMK) as an upstream component of the CaMK cascade that has been implicated in neuronal gene transcription, synaptic plasticity, and long-term memory consolidation. CAMKK1 has two isoforms of 56kda and 58kda and involved in regulating cell apoptosis, promotes cell survival by phosphorylating AKT1/PKB that inhibits pro-apoptotic BAD/Bcl2-antagonist of cell death. Researches showed that Camkk1 plays a selective role in contextual fear memory. This 66-68kda protein can be phosphorylated (probably antophosphorylation) (PMID:7961813). This antibody recognize the N-terminal of CAMKK1.

## 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

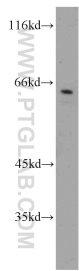
For technical support and original validation data for this product please contact:

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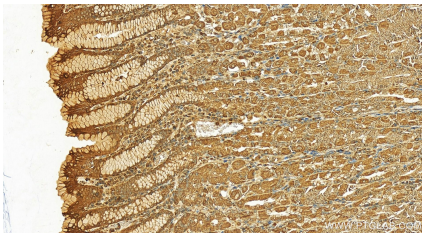
E: proteintech@ptglab.com  
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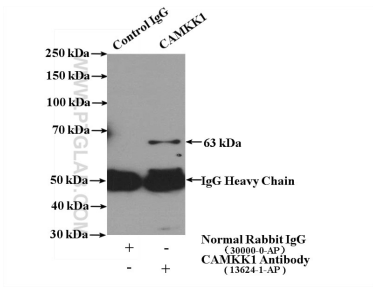
Selected Validation Data



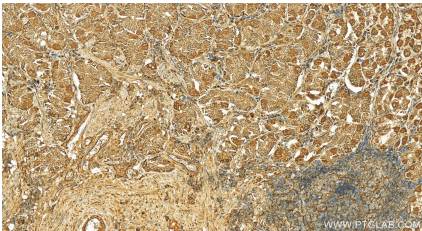
Jurkat cells were subjected to SDS PAGE followed by western blot with 13624-1-AP (CAMKK1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 13624-1-AP (CAMKK1 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-CAMKK1 (IP:13624-1-AP, 4ug; Detection:13624-1-AP 1:1000) with Jurkat cells lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 13624-1-AP (CAMKK1 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).