

For Research Use Only

# CAMKK1 Polyclonal antibody

Catalog Number: 13624-1-AP



## Basic Information

<b>Catalog Number:</b> 13624-1-AP	<b>GenBank Accession Number:</b> BC031647	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 750 ug/ml by Nanodrop and 327 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 84254	<b>Recommended Dilutions:</b> 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
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q8N5S9	
<b>Isotype:</b> IgG	<b>Full Name:</b> calcium/calmodulin-dependent protein kinase kinase 1, alpha	
<b>Immunogen Catalog Number:</b> AG4534	<b>Calculated MW:</b> 520 aa, 57 kDa	
	<b>Observed MW:</b> 63 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IP, ELISA	<b>Positive Controls:</b> WB : Jurkat cells, IP : Jurkat cells, IHC : human stomach tissue,
<b>Species Specificity:</b> human, mouse, rat	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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

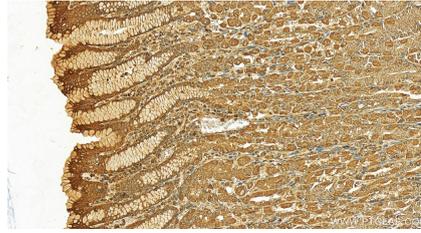
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

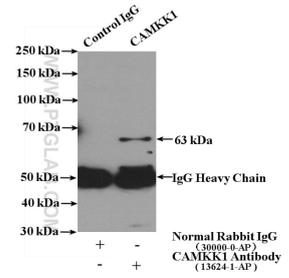
## Selected Validation Data



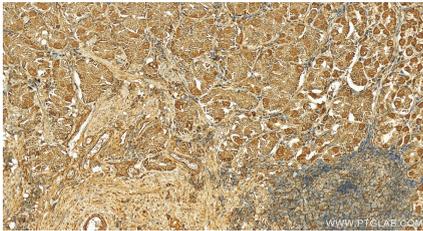
Jurkat cells were subjected to SDS PAGE followed by western blot with 13624-1-AP (CAMKK1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



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).