

For Research Use Only

# CaMKII gamma-Specific Polyclonal antibody

Catalog Number: 55140-1-AP

2 Publications



## Basic Information

### Catalog Number:

55140-1-AP

### Size:

150ul, Concentration: 600 ug/ml by Nanodrop and 587 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### GenBank Accession Number:

NM\_001222

### GeneID (NCBI):

818

### UNIPROT ID:

Q13555

### Full Name:

calcium/calmodulin-dependent protein kinase II gamma

### Calculated MW:

65 kDa

### Observed MW:

45-65 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:3000

IHC 1:20-1:200

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

WB

### Species Specificity:

human, mouse, rat

### Cited Species:

human

### Positive Controls:

WB : mouse brain tissue,

IHC : human skeletal muscle tissue,

**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

CaMKII gamma, also named as CAMKG, belongs to the protein kinase superfamily, CAMK Ser/Thr protein kinase family and CaMK subfamily. It is a prominent kinase in the central nervous system that may function in long-term potentiation and neurotransmitter release. CaMK2 is a Ca<sup>2+</sup>-signaling intermediate that contains  $\alpha$ ,  $\beta$ ,  $\gamma$  and  $\delta$  subunits. The antibody is specific to CAMK2G.

## Notable Publications

Author	Pubmed ID	Journal	Application
Ya Peng	33761465	Aging (Albany NY)	WB
Qingfeng Yu	31247466	Biomed Pharmacother	WB

## Storage

### Storage:

Store at -20°C.

### 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

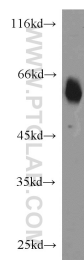
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

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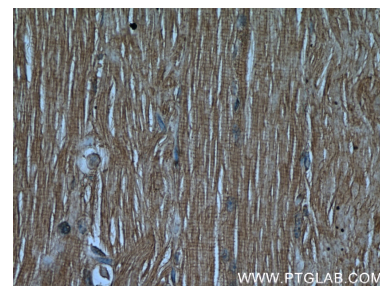
## Selected Validation Data



mouse brain tissue were subjected to SDS PAGE followed by western blot with 55140-1-AP (CaMKII gamma-Specific antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human skeletal muscle using 55140-1-AP (CaMKII gamma-Specific antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human skeletal muscle using 55140-1-AP (CaMKII gamma-Specific antibody) at dilution of 1:50 (under 40x lens).