

For Research Use Only

# CaMKII delta-Specific Polyclonal antibody

Catalog Number: 20667-1-AP

Featured Product

14 Publications



## Basic Information

Catalog Number:

20667-1-AP

Size:

150ul, Concentration: 350 ug/ml by Nanodrop and 193 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM\_001221

GeneID (NCBI):

817

UNIPROT ID:

Q13557

Full Name:

calcium/calmodulin-dependent protein kinase II delta

Calculated MW:

59 kDa

Observed MW:

55 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:500-1:2000

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

Cited Applications:

WB, IHC, IF, CoIP

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, mouse skeletal muscle tissue, mouse heart tissue, human skeletal muscle tissue, rat brain tissue

IP: rat brain tissue,

IHC: human brain tissue,

## Background Information

CaMKII delta, also named as CAMKD and CaMKII delta, belongs to the protein kinase superfamily, CAMK Ser/Thr protein kinase family and CaMK subfamily. CaM-kinase II (CAMK2) is a prominent kinase in the central nervous system that may function in long-term potentiation and neurotransmitter release, composed of four different chains: alpha, beta, gamma, and delta. The CAMK2 protein kinases contain a unique C-terminal subunit association domain responsible for oligomerization. The different chains assemble into homo- or heteromultimeric holoenzymes composed of 8 to 12 subunits. This antibody is specific to the C-term of delta chain, CaMKII delta. It can recognize most isoforms the gene encodes, from 50-72kd. It can recognize the isoform 2,3,4,9,11 of CAMK2D.

## Notable Publications

Author	Pubmed ID	Journal	Application
Cui Ma	33230455	Mol Ther Nucleic Acids	WB
Peng Chen	33707969	J Pain Res	WB
Sufeng Shen	35245993	Bioengineered	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

\*\*\* 20ul sizes contain 0.1% BSA

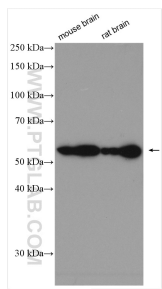
For technical support and original validation data for this product please contact:

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

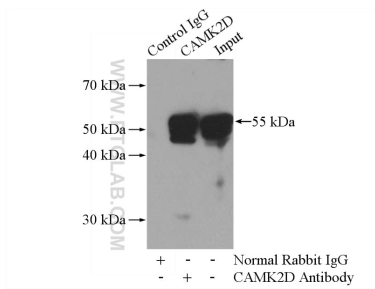
E: proteintech@ptglab.com  
W: ptglab.com

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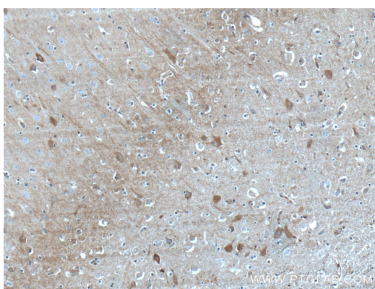
Selected Validation Data



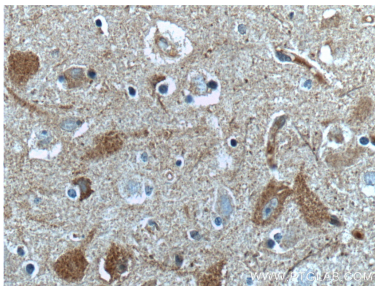
Various lysates were subjected to SDS PAGE followed by western blot with 20667-1-AP (CaMKII delta-Specific antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP result of anti-CaMKII delta-Specific (IP:20667-1-AP, 4ug; Detection:20667-1-AP 1:600) with rat brain tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 20667-1-AP (CaMKII delta-Specific 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 human brain tissue slide using 20667-1-AP (CaMKII delta-Specific antibody at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).