

**CAMK2N1 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP10235b****Specification**

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**CAMK2N1 Antibody (C-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q7Z7J9</a>
Other Accession	<a href="#">Q9JI15</a> , <a href="#">Q6QWF9</a> , <a href="#">A7MBG3</a> , <a href="#">NP_061054.2</a>
Reactivity	Human, Mouse
Predicted	Bovine, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	8553
Antigen Region	37-65

**CAMK2N1 Antibody (C-term) - Additional Information****Gene ID** 55450**Other Names**

Calcium/calmodulin-dependent protein kinase II inhibitor 1, CaMKII inhibitory protein alpha, CaMKIIN-alpha, CAMK2N1

**Target/Specificity**

This CAMK2N1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 37-65 amino acids from the C-terminal region of human CAMK2N1.

**Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

CAMK2N1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**CAMK2N1 Antibody (C-term) - Protein Information****Name** CAMK2N1

**Function** Potent and specific inhibitor of CaM-kinase II (CAMK2) (By similarity). Plays a role in the maintenance of long-term retrieval- induced memory in response to contextual fear (By similarity). Modulates blood pressure and vascular reactivity via regulation of CAMK2 activity in addition to regulation of left ventricular mass (By similarity). Mediates the NLRP3 inflammasome in cardiomyocytes via acting as an inhibitor of the MAPK14/p38 and MAPK8/JNK pathways, thereby regulating ventricular remodeling and cardiac rhythm post- myocardial infarction (By similarity). Negatively effects insulin sensitivity and promotes lipid formation in adipose tissues independent of CAMK2 signaling (By similarity).

#### Cellular Location

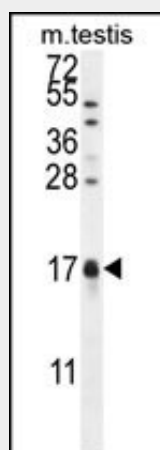
Synapse {ECO:0000250|UniProtKB:Q6QWF9}. Cell projection, dendrite {ECO:0000250|UniProtKB:Q9JI15}. Postsynaptic density {ECO:0000250|UniProtKB:Q6QWF9}

### CAMK2N1 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### CAMK2N1 Antibody (C-term) - Images



CAMK2N1 Antibody (C-term) (Cat. #AP10235b) western blot analysis in mouse testis tissue lysates (35ug/lane). This demonstrates the CaMK2N1 antibody detected the CaMK2N1 protein (arrow).

### CAMK2N1 Antibody (C-term) - References

Wang, C., et al. J. Biol. Chem. 283(17):11565-11574(2008)  
Meng, F., et al. Brain Res. 967 (1-2), 161-169 (2003) :  
Sedelnikova, A., et al. Int. J. Dev. Neurosci. 20 (3-5), 237-246 (2002) :