

**CAMK2N1 Antibody (C-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP10235b****Specification**

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

Primary Accession [Q7Z7J9](#)  
Other Accession [NP\\_061054.2](#)

**CAMK2N1 Antibody (C-term) Blocking peptide - Additional Information**

**Gene ID** 55450

**Other Names**

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

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**CAMK2N1 Antibody (C-term) Blocking peptide - 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) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

**CAMK2N1 Antibody (C-term) Blocking peptide - Images**

**CAMK2N1 Antibody (C-term) Blocking peptide - 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) :