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CAMK2N2 Antibody (N-term) Blocking peptide

Synthetic peptide
Catalog # BP11140a

Specification

CAMK2N2 Antibody (N-term) Blocking peptide - Product Information

Primary Accession Q96S95

CAMK2N2 Antibody (N-term) Blocking peptide - Additional Information

Gene ID 94032

Other Names
Calcium/calmodulin-dependent protein kinase II inhibitor 2, CaM-KII inhibitory protein, CaM-KIIN, CAMK2N2

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.

CAMK2N2 Antibody (N-term) Blocking peptide - Protein Information

Name CAMK2N2

Function
Potent and specific cellular inhibitor of CaM-kinase II (CAMK2) (PubMed:11444830). Traps Ca(2+)/calmodulin on CAMK2 (By similarity).

Cellular Location
Nucleus {ECO:0000250|UniProtKB:Q9Z2N6}. Cytoplasm, cytosol {ECO:0000250|UniProtKB:Q9Z2N6}. Synapse {ECO:0000250|UniProtKB:Q78WH7}. Note=Excluded from nucleus when coexpressed with activated CAMK2. {ECO:0000250|UniProtKB:Q9Z2N6}

Tissue Location
Highly Expressed in keyhole limpet hemocyanin- stimulated dendritic cell (DC) and weakly expressed in unstimulated mature and immature DC (PubMed:11444830). Highly expressed in kidney and liver (PubMed:11444830). Moderately expressed in heart, skeletal muscle, and placenta (PubMed:11444830). Weakly expressed in the small intestine (PubMed:11444830).

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CAMK2N2 Antibody (N-term) Blocking peptide - Protocols

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

- Blocking Peptides

CAMK2N2 Antibody (N-term) Blocking peptide - Images

CAMK2N2 Antibody (N-term) Blocking peptide - Background

This gene encodes a protein that is highly similar to therat CaM-KII inhibitory protein, an inhibitor ofcalcium/calmodulin-dependent protein kinase II (CAMKII). CAMKIIregulates numerous physiological functions, including neuronalsynaptic plasticity through the phosphorylation ofalpha-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid-typeglutamate (AMPA) receptors. Studies of the similar protein in ratsuggest that this protein may function as a negative regulator ofCaM-KII and may act to inhibit the phosphorylation of AMPAreceptors.

CAMK2N2 Antibody (N-term) Blocking peptide - References

Ma, S., et al. J. Biol. Chem. 284(37):24773-24782(2009)Okabe, T., et al. J. Biol. Chem. 278(11):9920-9927(2003)Zhang, J., et al. Biochem. Biophys. Res. Commun. 285(2):229-234(2001)Chang, B.H., et al. Proc. Natl. Acad. Sci. U.S.A. 95(18):10890-10895(1998)