

# Mouse Camkk2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AW5038

## **Specification**

# Mouse Camkk2 Antibody (N-term) - Product Information

Application WB,E
Primary Accession Other Accession NP\_663333.1

Reactivity Human, Mouse, Rat

Host Rabbit Clonality Polyclonal

Calculated MW H=65;M=65;Rat=64 KDa

Isotype Rabbit IgG
Antigen Source MOUSE

## Mouse Camkk2 Antibody (N-term) - Additional Information

**Gene ID 207565** 

**Antigen Region** 

43-71

#### **Other Names**

Camkk2; Kiaa0787; Calcium/calmodulin-dependent protein kinase kinase 2; Calcium/calmodulin-dependent protein kinase kinase beta

### **Dilution**

WB~~1:1000

## **Target/Specificity**

This Mouse Camkk2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 43-71 amino acids from the N-terminal region of mouse Camkk2.

#### **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**

Mouse Camkk2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

### Mouse Camkk2 Antibody (N-term) - Protein Information



### Name Camkk2

# Synonyms Kiaa0787

#### **Function**

Calcium/calmodulin-dependent protein kinase belonging to a proposed calcium-triggered signaling cascade involved in a number of cellular processes. Phosphorylates CAMK1, CAMK4 and CAMK1D (By similarity). Efficiently phosphorylates 5'-AMP-activated protein kinase (AMPK) trimer, including that consisting of PRKAA1, PRKAB1 and PRKAG1. This phosphorylation is stimulated in response to Ca(2+) signals (By similarity). May play a role in neurite growth. Isoform 2 may promote neurite elongation, while isoform 1 may promoter neurite branching (By similarity). May be involved in hippocampal activation of CREB1.

#### **Cellular Location**

Nucleus {ECO:0000250|UniProtKB:Q96RR4}. Cytoplasm {ECO:0000250|UniProtKB:Q96RR4}. Cell projection, neuron projection {ECO:0000250|UniProtKB:Q96RR4}. Note=Predominantly nuclear in unstimulated cells, relocalizes into cytoplasm and neurites after forskolin induction. {ECO:0000250|UniProtKB:Q96RR4}

### **Tissue Location**

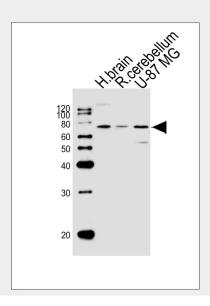
Expressed in all tissues tested. A differential expression pattern compared to CAMKK1 is observed in the brain

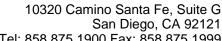
### Mouse Camkk2 Antibody (N-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- <u>Immunofluorescence</u>
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

# Mouse Camkk2 Antibody (N-term) - Images







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Western blot analysis of lysates from human brain, rat cerebellum tissue and U-87 MG cell line (from left to right), using Mouse Camkk2 Antibody (N-term)(Cat. #AW5038). AW5038 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.

# Mouse Camkk2 Antibody (N-term) - Background

Calcium/calmodulin-dependent protein kinase belonging to a proposed calcium-triggered signaling cascade involved in a number of cellular processes. Phosphorylates CAMK1, CAMK4 and CAMK1D (By similarity). Seems to be involved in hippocampal activation of CREB1.

# Mouse Camkk2 Antibody (N-term) - References

Jin, X.L., et al. Biol. Reprod. 82(2):459-468(2010) Kokubo, M., et al. J. Neurosci. 29(28):8901-8913(2009) Anderson, K.A., et al. Cell Metab. 7(5):377-388(2008) Park, C.S., et al. Neuroscience 151(1):43-55(2008) Hoyer-Hansen, M., et al. Mol. Cell 25(2):193-205(2007)