

**Mouse Camkk2 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AW5038**

**Specification**

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

Application	WB,E
Primary Accession	<a href="#">Q8C078</a>
Other Accession	<a href="#">NP_663333.1</a>
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 promote 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**

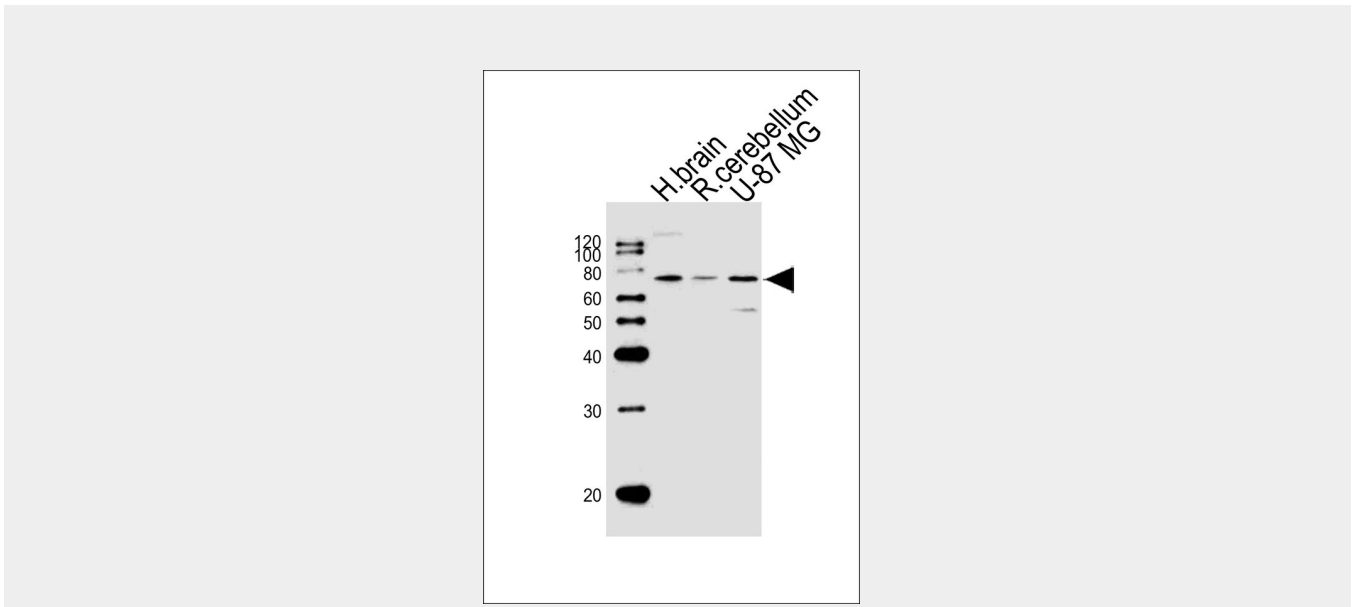
Expressed in all tissues tested. A differential expression pattern compared to CAMKK1 is observed in the brain

**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](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Mouse Camkk2 Antibody (N-term) - Images**



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)