

# Mouse Camkk2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP14951a

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">Q8C078</a>
<b>Other Accession</b>	<a href="#">NP_663333.1</a>
<b>Reactivity</b>	Human, Rat, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB34453
<b>Calculated MW</b>	64618
<b>Antigen Region</b>	43-71

## Additional Information

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<b>Gene ID</b>	207565
<b>Other Names</b>	Calcium/calmodulin-dependent protein kinase kinase 2, CaM-KK 2, CaM-kinase kinase 2, CaMKK 2, Calcium/calmodulin-dependent protein kinase kinase beta, CaM-KK beta, CaM-kinase kinase beta, CaMKK beta, Camkk2, Kiaa0787
<b>Target/Specificity</b>	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.
<b>Dilution</b>	WB~~1:1000 E~~Use at an assay dependent concentration.
<b>Format</b>	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.
<b>Storage</b>	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.
<b>Precautions</b>	Mouse Camkk2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	Camkk2
<b>Synonyms</b>	Kiaa0787

<b>Function</b>	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.
<b>Cellular Location</b>	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}
<b>Tissue Location</b>	Expressed in all tissues tested. A differential expression pattern compared to CAMKK1 is observed in the brain

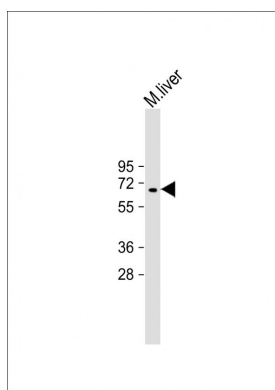
## Background

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.

## 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)

## Images



Anti-Mouse Camkk2 Antibody (N-term) at 1:2000 dilution + mouse liver lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 65 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.