

**Mouse Camk1d Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP20362a****Specification**

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**Mouse Camk1d Antibody (N-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q8BW96</a>
Other Accession	<a href="#">Q8IU85</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	42919
Antigen Region	39-67

**Mouse Camk1d Antibody (N-term) - Additional Information****Gene ID** 227541**Other Names**

Calcium/calmodulin-dependent protein kinase type 1D, CaM kinase I delta, CaM-KI delta, CaMKI delta, CaM kinase ID, CaMKI-like protein kinase, CKLiK, mCKLiK, Camk1d

**Target/Specificity**

This Mouse Camk1d antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 39-67 amino acids from the N-terminal region of mouse Camk1d.

**Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

**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 Camk1d Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**Mouse Camk1d Antibody (N-term) - Protein Information****Name** Camk1d

**Function** Calcium/calmodulin-dependent protein kinase that operates in the calcium-triggered CaMKK-CaMK1 signaling cascade and, upon calcium influx, activates CREB-dependent gene transcription, regulates calcium-mediated granulocyte function and respiratory burst and promotes basal dendritic growth of hippocampal neurons. In neutrophil cells, required for cytokine-induced proliferative responses and activation of the respiratory burst. Activates the transcription factor CREB1 in hippocampal neuron nuclei. May play a role in apoptosis of erythroleukemia cells. In vitro, phosphorylates transcription factor CREM isoform Beta (By similarity). Isoform 1 but not isoform 2 activates CREB1.

#### **Cellular Location**

Cytoplasm. Nucleus. Note=Predominantly cytoplasmic. Nuclear upon activation.

#### **Tissue Location**

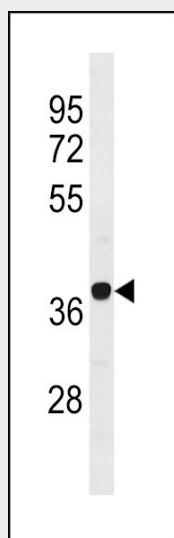
Expressed ubiquitously with high levels in brain and low levels in kidney. Isoform 2 is highly expressed in brain compared to other tissues. In hematopoietic cell lines predominant expression was detected in T and EC cells

### **Mouse Camk1d 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 Camk1d Antibody (N-term) - Images**



Mouse Camk1d Antibody (N-term) (Cat. #AP20362a) western blot analysis in 293 cell line lysates (35ug/lane). This demonstrates the Mouse Camk1d antibody detected the Mouse Camk1d protein (arrow).

### **Mouse Camk1d Antibody (N-term) - Background**

Calcium/calmodulin-dependent protein kinase that operates in the calcium-triggered CaMKK-CaMK1 signaling cascade and, upon calcium influx, activates CREB-dependent gene transcription, regulates calcium-mediated granulocyte function and respiratory burst and promotes basal dendritic growth of hippocampal neurons. In neutrophil cells, required for cytokine-induced proliferative responses and activation of the respiratory burst. Phosphorylates the transcription activator CREB1 on 'Ser-133' in hippocampal neuron nuclei. May play a role in apoptosis of erythroleukemia cells. In vitro, phosphorylates transcription factor CREM isoform Beta (By similarity). Isoform 1 but not isoform 2 activates CREB1.