

Mouse Camk1d Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP20362a

Product Information

Application	WB, E
Primary Accession	Q8BW96
Other Accession	Q8IU85
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB42821
Calculated MW	42919
Antigen Region	39-67

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.

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.

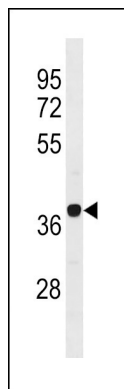
Tissue Location

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

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.

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).

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