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Mouse Camk1d Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20362a

Specification

Mouse Camk1d Antibody (N-term) - Product Information

Application	**WB,E**
Primary Accession	Q8BW96
Other Accession	Q8IU85
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

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.

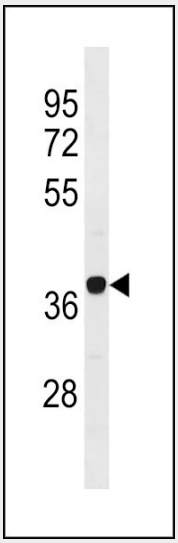
Tissue Location
Expressed ubiquitously with high levels in brain and low levels in kidney. Isoform 2 is highly expressed in brain compared to other tissues. In hematopoietic cell lines predominant expression was detected in T and EC cells

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 Cytomety
- 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.