

**CAMK1D (CAMK1 delta)Antibody (C-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP7204a****Specification**

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**CAMK1D (CAMK1 delta)Antibody (C-term) - Product Information**

Application	WB, IHC-P,E
Primary Accession	<a href="#">Q8IU85</a>
Other Accession	<a href="#">NP_705718</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	302-333

**CAMK1D (CAMK1 delta)Antibody (C-term) - Additional Information****Gene ID** 57118**Other Names**

Calcium/calmodulin-dependent protein kinase type 1D, CaM kinase I delta, CaM kinase ID, CaM-KI delta, CaMKI delta, CaMKID, CaMKI-like protein kinase, CKLiK, CAMK1D, CAMKID

**Target/Specificity**

This CAMK1D (CAMK1 delta) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 302-333 amino acids from the C-terminal region of human CAMK1D (CAMK1 delta).

**Dilution**WB~~1:1000  
IHC-P~~1:50~100**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**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**

CAMK1D (CAMK1 delta)Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**CAMK1D (CAMK1 delta)Antibody (C-term) - Protein Information****Name** CAMK1D

## Synonyms CAMKID

**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.

## Cellular Location

Cytoplasm. Nucleus. Note=Predominantly cytoplasmic. Nuclear localization increases upon activation by KCl treatment in hippocampal neurons

## Tissue Location

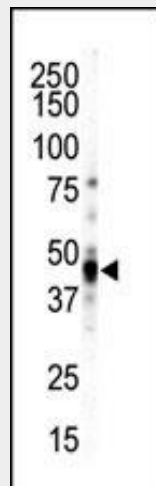
Widely expressed. Highly and mostly expressed in polymorphonuclear leukocytes (neutrophilic and eosinophilic granulocytes) while little or no expression is observed in monocytes and lymphocytes.

## CAMK1D (CAMK1 delta)Antibody (C-term) - Protocols

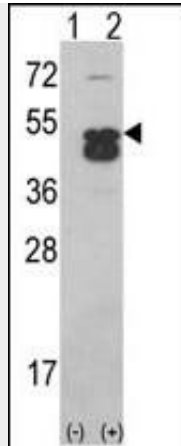
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

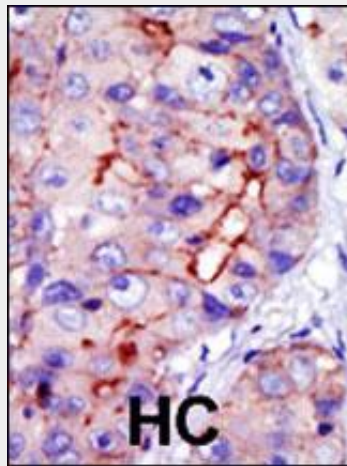
## CAMK1D (CAMK1 delta)Antibody (C-term) - Images



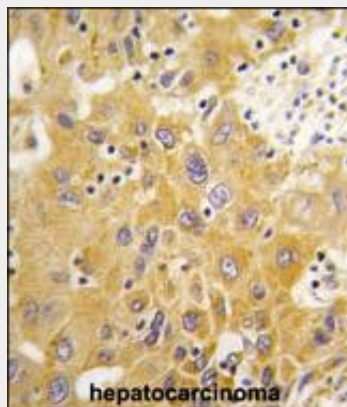
Western blot analysis of anti-CAMK1-like C-term Pab (Cat. #AP7204a) in NCIH460 cell lysate. CAMK1-like (arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.



Western blot analysis of CAMK1D (arrow) using CAMK1D (CAMK1 delta)Antibody (C-term) (Cat. #AP7204a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the CAMK1D gene (Lane 2).



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.



Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with CAMK1-like Antibody (C-term) (Cat.#AP7204a), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

**CAMK1D (CAMK1 delta)Antibody (C-term) - Background**

CAMK1-like protein kinase belongs to a proposed calcium-triggered signaling cascade. This protein is expressed in polymorphonuclear leukocytes (PMNs) and may be part of the chemokine signal transduction pathway that regulates granulocyte function. CAMK1-like protein kinase may play a role in apoptosis of erythroleukemia cells. It activates MAP kinase MAPK3, and in vitro, phosphorylates transcription factor CREM isoform Beta and probably CREB1.

**CAMK1D (CAMK1 delta)Antibody (C-term) - References**

Verploegen, S., et al., Blood 96(9):3215-3223 (2000).  
Ishikawa, Y., et al., FEBS Lett. 550 (1-3), 57-63 (2003).