

**CAMK1G (CaMKI gamma) Antibody (C-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP7253b****Specification**

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**CAMK1G (CaMKI gamma) Antibody (C-term) - Product Information**

Application	IHC-P, WB,E
Primary Accession	<a href="#">O96NX5</a>
Other Accession	<a href="#">NP_065172</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	420-450

**CAMK1G (CaMKI gamma) Antibody (C-term) - Additional Information****Gene ID** 57172**Other Names**

Calcium/calmodulin-dependent protein kinase type 1G, CaM kinase I gamma, CaM kinase IG, CaM-KI gamma, CaMKI gamma, CaMKIG, CaMK-like CREB kinase III, CLICK III, CAMK1G, CLICK3, VWS1

**Target/Specificity**

This CAMK1G (CaMKI gamma) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 420-450 amino acids from the C-terminal region of human CAMK1G (CaMKI gamma).

**Dilution**

IHC-P~~1:50~100

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 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**

CAMK1G (CaMKI gamma) Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**CAMK1G (CaMKI gamma) Antibody (C-term) - Protein Information**

**Name** CAMK1G

**Synonyms** CLICK3, VWS1

**Function** Calcium/calmodulin-dependent protein kinase belonging to a proposed calcium-triggered signaling cascade. In vitro phosphorylates transcription factor CREB1 (By similarity).

**Cellular Location**

Cytoplasm. Golgi apparatus membrane; Peripheral membrane protein. Cell membrane; Peripheral membrane protein

**Tissue Location**

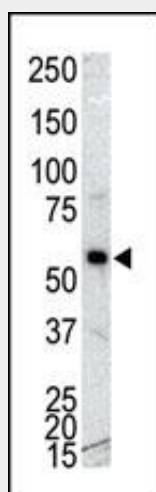
Mainly expressed in brain with small amounts in skeletal muscles, kidney, spleen and liver. Strongly expressed in forebrain neocortex, striatum and limbic system

**CAMK1G (CaMKI gamma) Antibody (C-term) - Protocols**

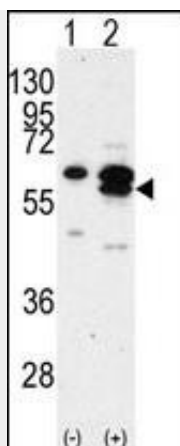
Provided below are standard protocols that you may find useful for product applications.

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

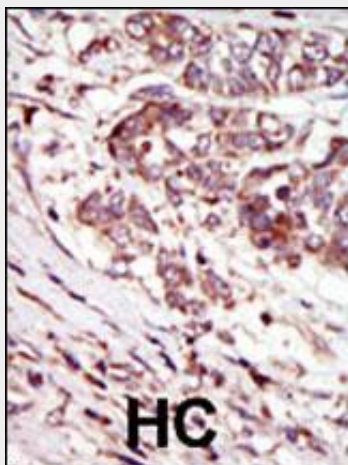
**CAMK1G (CaMKI gamma) Antibody (C-term) - Images**



Western blot analysis of anti-CAMK 1G Pab (Cat. #AP7253b) in NCI-H460 cell lysate. CAMK 1G (arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.



Western blot analysis of CAMK1G (arrow) using rabbit polyclonal CAMK1G Antibody (C-term) (RB01249). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the CAMK1G gene (Lane 2) (Origene Technologies).



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

#### **CAMK1G (CaMKI gamma) Antibody (C-term) - Background**

Ca<sup>2+</sup>/calmodulin-dependent protein kinase I (CaMKI) constitutes a family of closely related isoforms (alpha, beta and gamma). CLICK-III/CaMKIgamma is a novel membrane-anchored neuronal Ca<sup>2+</sup>/calmodulin-dependent protein kinase. AMKIgamma is abundant in neurons, particularly in the amygdala and ventromedial hypothalamus. Like the other CaMKI isoforms, full activation of CLICK-III/CaMKIgamma requires both Ca<sup>2+</sup>/CaM and phosphorylation by CaMKK.

#### **CAMK1G (CaMKI gamma) Antibody (C-term) - References**

Takemoto-Kimura, S., et al., J. Biol. Chem. 278(20):18597-18605 (2003).  
Schutte, B.C., et al., Genome Res. 10(1):81-94 (2000).

#### **CAMK1G (CaMKI gamma) Antibody (C-term) - Citations**

- [Splice variant specific increase in Ca<sup>2+</sup>/calmodulin-dependent protein kinase 1-gamma mRNA expression in response to acute pyrethroid exposure.](#)