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CAMK1G (CaMKI gamma) Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7253b

Specification

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

Application	**WB, IHC-P,E**
Primary Accession	Q96NX5
Other Accession	NP_065172
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
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
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

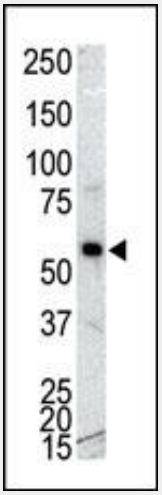
Tissue Location
Mainly expressed in brain with small amounts in skeletal muscles, kidney, spleen and liver. Strongly expressed in forebrain neocortex, striatum and limbic system

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

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

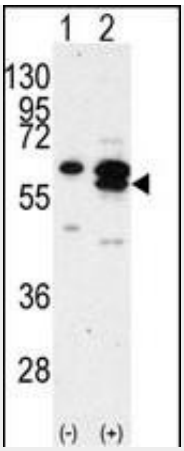
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

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

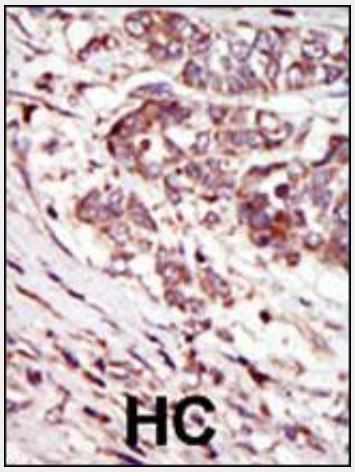


Western blot analysis of anti-CAMK 1G Pab (Cat. #AP7253b) in NCI-H460 cell lysate. CAMK 1G (arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.

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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

Ca2+/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 Ca2+/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(2+)/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 Ca2+/calmodulin-dependent protein kinase 1-gamma mRNA expression in response to acute pyrethroid exposure.