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CAMK1G Antibody (Center K226)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7253c

Specification

CAMK1G Antibody (Center K226) - Product Information

Application	**IHC-P, WB,E**
Primary Accession	Q96NX5
Other Accession	Q7TNJ7, Q91VB2, NP_065172
Reactivity	**Human**
Predicted	**Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**53087**
Antigen Region	**211-241**

CAMK1G Antibody (Center K226) - 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 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 211-241 amino acids from the Central region of human CAMK1G.

Dilution
IHC-P~~1:10~50
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 Antibody (Center K226) is for research use only and not for use in diagnostic or therapeutic procedures.

CAMK1G Antibody (Center K226) - Protein Information

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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

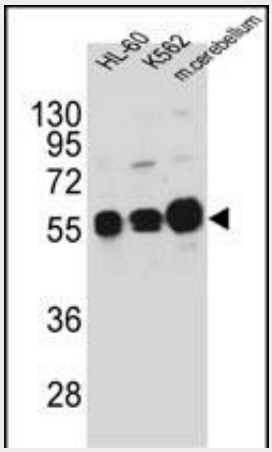
Tissue Location
Mainly expressed in brain with small amounts in skeletal muscles, kidney, spleen and liver. Strongly expressed in forebrain neocortex, striatum and limbic system

CAMK1G Antibody (Center K226) - 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 Antibody (Center K226) - Images



CAMK1G Antibody (Center K226) (Cat.#AP7253c) western blot analysis in HL-60,K562 cell line and mouse cerebellum tissue lysates (35ug/lane).This demonstrates the CAMK1G antibody detected the CAMK1G protein (arrow).

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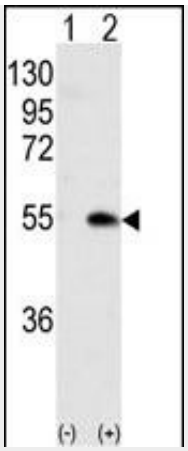
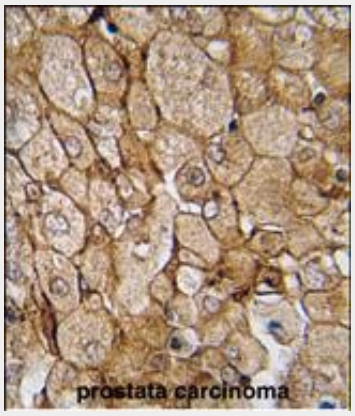


Western blot analysis of CAMK1G (arrow) using rabbit polyclonal CAMK1G (Center K226) Antibody (Cat.#AP7253c). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with CAMK1G gene (Lane 2) (Origene Technologies).



Formalin-fixed and paraffin-embedded human prostata carcinoma tissue reacted with CAMK1G (Center K226) (Cat.#AP7253c), 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.

CAMK1G Antibody (Center K226) - 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 Antibody (Center K226) - 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).