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CAMK1G Antibody (Center K226)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7253c

Product Information

Application	WB, IHC-P, E
Primary Accession	Q96NX5
Other Accession	Q7TNJ7, Q91VB2, NP_065172
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB15447
Calculated MW	53087
Antigen Region	211-241

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	WB~~1:1000 IHC-P~~1:100~500 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.

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

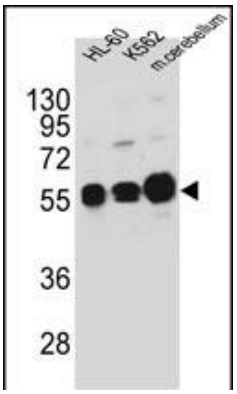
Background

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.

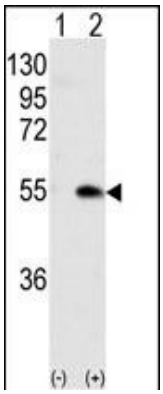
References

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).

Images

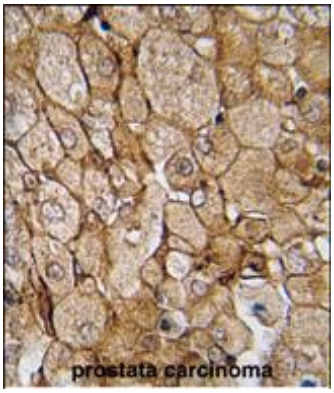


CAMK1G Antibody (Center K226) (Cat.#AP7253c) western blot analysis in HL-60,K562 cell line and mouse cerebellum tissue lysates (35ug/lane).This demonstrates the CAMK1G antibody detected the CAMK1G protein (arrow).



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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.