10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CAMK1G Antibody (Center K226) Blocking Peptide

Synthetic peptide
Catalog # BP7253c

Specification

CAMK1G Antibody (Center K226) Blocking Peptide - Product Information

Primary Accession	Q96NX5
Other Accession	NP_065172

CAMK1G Antibody (Center K226) Blocking Peptide - 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
The synthetic peptide sequence used to generate the antibody AP7253c was selected from the Center region of human CAMK1G. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CAMK1G Antibody (Center K226) Blocking Peptide - 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 Antibody (Center K226) Blocking Peptide - Protocols

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

- Blocking Peptides

CAMK1G Antibody (Center K226) Blocking Peptide - Images

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