

Recombinant Full Length Human CAMK2G Protein, GST-tagged

Cat. No. CAMK2G-2786HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CAMK2G full-length ORF (AAH34044, 1 a.a. - 527 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	527 amino acids
Description	The product of this gene is one of the four subunits of an enzyme which belongs to the serine/threonine protein kinase family, and to the Ca(2+)/calmodulin-dependent protein kinase subfamily. Calcium signaling is crucial for several aspects of plasticity at glutamatergic synapses. In mammalian cells the enzyme is composed of four different chains: alpha, beta, gamma, and delta. The product of this gene is a gamma chain. Many alternatively spliced transcripts encoding different isoforms have been described but the full-length nature of all the variants has not been determined.[provided by RefSeq, Mar 2011]
Molecular Mass	83.71 kDa
AA Sequence	MATTATCTRFTDDYQLFEELGKGAFSGVRRRCVKKTPQEYAAKIINTKKLSARDHQK LEREARICRLKHPNIVRLHDSISEEGFHVYLVFDLVTGGELFEDIVAREYYSEADASHC IHQILESVDNHHQHDIVHRDLKPENLLLASKCKGAAVKLADFGLAIEVQGEQQAWFGF AGTPGYLSPEVLRKDPYGKPVDIWACGVILYILLVGYPPFWDQDQHKLYQQIKAGAY

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DFPSPEWDTVTPEAKNLINQMLTINPAKRITADQALKHPWVCQRSTVASMMHRQET
 VECLRKFNARRKLGAILTTMLVSRNFSVGRQSSAPASPAASAAGLAGQAAKSLLNK
 KSDGGVKKRKSSSSVHLMEPQTTVVHNATDGIKGSTESCNTTTEDEDLKVRKQEIIKI
 TEQLIEAINNGDFEAYTKICDPGLTSFEPEALGNLVEGMDFHKFYFENLLSKNSKPIHT
 TILNPHVHVIGEDAACIAYIRLTQYIDGQGRPRTSQSEETRVWHRRDGKWLNVHYHC
 SGAPAAPLQ

Applications

- Kinase Assay
- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Notes Best use within three months from the date of receipt of this protein.

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name [CAMK2G calcium/calmodulin-dependent protein kinase II gamma \[Homo sapiens \]](#)

Official Symbol [CAMK2G](#)

Synonyms CAMK2G; calcium/calmodulin-dependent protein kinase II gamma;
 calcium/calmodulin dependent protein kinase (CaM kinase) II gamma, CAMKG;
 calcium/calmodulin-dependent protein kinase type II subunit gamma; caMK-II subunit
 gamma; calcium/calmodulin-dependent protein kinase (CaM kinase) II gamma;
 CAMK; CAMKG; CAMK-II; FLJ16043; MGC26678;

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Gene ID	818
mRNA Refseq	NM_001204492
Protein Refseq	NP_001191421
MIM	602123
UniProt ID	Q13555

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