

Recombinant Full Length Human CAMK2A Protein, GST-tagged

Cat. No. CAMK2A-2759HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CAMK2A full-length ORF (AAH40457.1, 1 a.a. - 478 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	478 amino acids
Description	The product of this gene belongs to the serine/threonine protein kinases family, and to the Ca(2+)/calmodulin-dependent protein kinases subfamily. Calcium signaling is crucial for several aspects of plasticity at glutamatergic synapses. This calcium calmodulin-dependent protein kinase is composed of four different chains: alpha, beta, gamma, and delta. The alpha chain encoded by this gene is required for hippocampal long-term potentiation (LTP) and spatial learning. In addition to its calcium-calmodulin (CaM)-dependent activity, this protein can undergo autophosphorylation, resulting in CaM-independent activity. Two transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Nov 2008]
Molecular Mass	78.32 kDa
AA Sequence	MATITCTRFTEEYQLFEELGKGAFSVVRRCKVLAGQEYAAKIINTKKLSARDHQKLE REARICRLKHPNIVRLHDSISEEGHHYLIFDLVTGGELFEDIVAREYYSEADASHCIQ

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QILEAVLHCHQMGMVHRDLKPENLLLASKLKGA AVKLADFG LAIEVEGEQQAWFGFA
GTPGYLSPEVLRKDPYGKPVDLWACGVILYILLVGYP PFWD EDQHRLYKQIKAGAYD
FPSPEWDTVTPEAKDLINKMLTINPSKRITAAEALKHPWISHRSTVASC MHRQETVD
CLKKFNARRKLKGAILTTMLATRNFSGGKSGGNKKS DGVKESSESTNTTIED EDDTKV
RKQEIIKVTEQLIEAISNGDFESYTKMCDPGMTAF EPEALGNLVEGLDFHRFYFENLW
SRNSKPVHTTILNPHIHLMGDESACIAYIRITQYLDAGGIPRTAQSEETRVWHRRDGK
WQIVHFHRSGAPSVLPH

Applications

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

CAMK2A calcium/calmodulin-dependent protein kinase II alpha [Homo sapiens]

Official Symbol

CAMK2A

Synonyms

CAMK2A; calcium/calmodulin-dependent protein kinase II alpha; calcium/calmodulin dependent protein kinase (CaM kinase) II alpha, CAMKA; calcium/calmodulin-dependent protein kinase type II subunit alpha; calcium/calmodulin dependent protein kinase II alpha B subunit; calcium/calmodulin dependent protein kinase type II alpha chain; CaM kinase II alpha subunit; CaM kinase II alpha chain; CaMK II alpha subunit; CaMKIINalpha; KIAA0968; CaMK-II alpha subunit; caMK-II subunit alpha;

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CaM-kinase II alpha chain; caM kinase II subunit alpha; calcium/calmodulin-dependent protein kinase II alpha-B subunit; calcium/calmodulin-dependent protein kinase type II alpha chain; calcium/calmodulin-dependent protein kinase (CaM kinase) II alpha; CAMKA;

Gene ID 815

mRNA Refseq NM_015981

Protein Refseq NP_057065

MIM 114078

UniProt ID Q9UQM7

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