

Recombinant Full Length Human CAMKK2 Protein, GST-tagged

Cat. No. CAMKK2-2792HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CAMKK2 full-length ORF (NP_705719.2, 1 a.a. - 541 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	541 amino acids
Description	The product of this gene belongs to the Serine/Threonine protein kinase family, and to the Ca(2+)/calmodulin-dependent protein kinase subfamily. The major isoform of this gene plays a role in the calcium/calmodulin-dependent (CaM) kinase cascade by phosphorylating the downstream kinases CaMK1 and CaMK4. Protein products of this gene also phosphorylate AMP-activated protein kinase (AMPK). This gene has its strongest expression in the brain and influences signalling cascades involved with learning and memory, neuronal differentiation and migration, neurite outgrowth, and synapse formation. Alternative splicing results in multiple transcript variants encoding distinct isoforms. The identified isoforms differ in their ability to undergo autophosphorylation and to phosphorylate downstream kinases. [provided by RefSeq, Jul 2012]
Molecular Mass	86 kDa
AA Sequence	MSSCVSSQPSSNRAAPQDELGGRGSSSSSESQKPCEALRGLSSLSIHLGMESFIVVT

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ECEPGCAVDLGLARDRPLEADGQEVPLDTSGSQARPHLSGRKLSLQERSQGGGLAA
 GGSLDMNGRCICPSLPYSPVSSPQSSPRLPRRPTVESHHSITGMQDCVQLNQYTL
 KDEIGKGSYGVVKLAYNENDNTYYAMKVLSSKKLIRQAGFPRRPPPRGTRPAPGGCI
 QPRGPIEQVYQEIAILKKLDHPNVVKLVEVLDDPNEDHLYMVFELVNQGPVMEVPTL
 KPLSEDQARFYFQDLIKGIEYLHYQKIIHRDIKPSNLLVGEDGHIKIADFGVSNEFKGS
 DALLSNTVGTAPFMAPESLSETRKIFSGKALDVWAMGVTLYCFVFGQCPFMDERIM
 CLHSKIKSQALEFPDQPDIAEDLKDLITRMLDKNPESRIVVPEIKLHPWVTRHGAEPLP
 SEDENCTLVEVTEEEVENSVKHIPSLATVILVKTMRKRSFGNPFEGSRREERSLSAP
 GNLLTKQGSEDNLQGTDPVGGEEVLL

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 [CAMKK2 calcium/calmodulin-dependent protein kinase kinase 2, beta \[Homo sapiens \]](#)

Official Symbol [CAMKK2](#)

Synonyms CAMKK2; calcium/calmodulin-dependent protein kinase kinase 2, beta; calcium/calmodulin-dependent protein kinase kinase 2; CAMKK; CAMKKB; KIAA0787; MGC15254; caM-KK 2; caM-KK beta; CAMKK beta protein; caM-kinase

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kinase 2; caM-kinase kinase beta; calcium/calmodulin-dependent protein kinase beta;

Gene ID

10645

mRNA Refseq

NM_006549

Protein Refseq

NP_006540

MIM

615002

UniProt ID

Q96RR4

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