

Recombinant Human CAMKK2 Protein, GST-Tagged

Cat. No. CAMKK2-0341H **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	Wheat Germ
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 ECEPGCAVDLGLARDRPLEADGQEVPLDTSGSQARPHLSGRKLSLQERSQGGLAA GGSLDMNGRCICPSLPYSPVSSPQSSPRLPRRPTVESHHVSITGMQDCVQLNQYTL

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KDEIGKGSYGVVKLAYNENDNTYYAMKVLSKKKLIRQAGFPRRPPPRGTRPAPGGCI
 QPRGPIEQVYQEIAILKKLDHPNVVKLVEVLDDPNEDHLYMVFELVNQGPVMEVPTL
 KPLSEDQARFYFQDLIKGIEYLHYQKIIHRDIKPSNLLVGEDGHIKIADFGVSNEFKGS
 DALLSNTVGTAPAFMAPESLSETRKIFSGKALDVWAMGVTLYCFVFGQCPFMDERIM
 CLHSKIKSQALEFPDQPDIAEDLKDLITRMLDKNPESRIVVPEIKLHPWVTRHGAELP
 SEDENCTLVEVTEEEVENSVKHIPSLATVILVKTMIKRKRSFGNPFEGSRREERSLSAP
 GNLLTKQGSEDNLQGTDP PPVGEEEVLL

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

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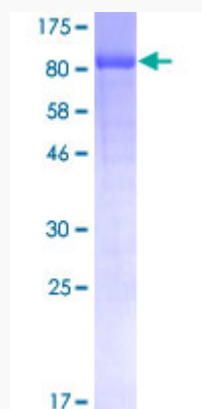
Gene ID 10645

mRNA Refseq NM_006549

Protein Refseq NP_006540

UniProt ID Q96RR4

**Quality Control
Testing**



12.5% SDS-PAGE Stained with Coomassie Blue.

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