

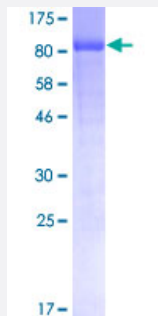
Full-Length

CAMKK2 (Human) Recombinant Protein (P01)

Catalog # H00010645-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human CAMKK2 full-length ORF (NP_705719.2, 1 a.a. - 541 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MSSCVSSQPSSNRAAPQDELGGRGSSSSSESQKPCEALRGLSSLSIHLGMESFMVTECEPGCA
VDLGLADRPLEADGQEVPLDTSGSQARPHLSGRKLSLQERSQGGLAAGGSLDMNGRCICPSL
PYSPVSSPQSSPRLPRRPTVESHHSITGMQDCVQLNQYTLKDEIGKGSYGVVKLAYNENDNTYY
AMKVLSSKKLIRQAGFPRRPPPRGTRPAPGGCIQPRGPIEQVYQEAILKKLDHPNVVKLVEVLDD
PNEDHLYMVFELVNQGPVMEVPTLKPLSEDQARFYFQDLIKGIEYLHYQKIIHRDIKPSNLLVGEDG
HIKADFGVSNEFKGSDALLSNTVGTPAFMAPESLSETRKIFSGKALDVWAMGVTLYCFVFGQCP
FMDERIMCLHSKIKSQALEFPDQPDIAEDLKDLITRMLDKNPESRIVPEIKLHPWVTRHGAEPLPS
EDENCTLVEVTEEEVENSVKHIPSLATVILVKTMIRKRSFGNPFEGSRREERSLSAPGNLLTKQGS
EDNLQGTDP PPVGE EEEVLL

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

86

Interspecies Antigen Sequence

Mouse (92); Rat (93)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

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

Gene Info — CAMKK2

Entrez GeneID	10645
GeneBank Accession#	NM_153499.2
Protein Accession#	NP_705719.2
Gene Name	CAMKK2
Gene Alias	CAMKK, CAMKKB, KIAA0787, MGC15254
Gene Description	calcium/calmodulin-dependent protein kinase kinase 2, beta
Gene Ontology	Hyperlink
Gene Summary	The product of this gene belongs to the Serine/Threonine protein kinase family, and to the Ca(2+)/calmodulin-dependent protein kinase subfamily. This protein plays a role in the calcium/calmodulin-dependent (CaM) kinase cascade by phosphorylating the downstream kinases CaMK1 and CaMK4. Seven transcript variants encoding six distinct isoforms have been identified for this gene. Additional splice variants have been described but their full-length nature has not been determined. The identified isoforms exhibit a distinct ability to undergo autophosphorylation and to phosphorylate the downstream kinases. [provided by RefSeq]
Other Designations	CAMKK beta protein calcium/calmodulin-dependent protein kinase beta calcium/calmodulin-dependent protein kinase kinase 2 beta

Pathway

- [Adipocytokine signaling pathway](#)

Disease

- [Agoraphobia](#)
- [Anxiety Disorders](#)
- [Bipolar Disorder](#)
- [Genetic Predisposition to Disease](#)
- [Kidney Failure](#)
- [Panic Disorder](#)
- [Phobic Disorders](#)
- [Tobacco Use Disorder](#)