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Product datasheet for PH319152

CAMKK2 (NM_153499) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	CAMKK2 MS Standard C13 and N15-labeled recombinant protein (NP_705719)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC219152
Predicted MW:	59.6 kDa
Protein Sequence:	>RC219152 representing NM_153499 Red=Cloning site Green=Tags(s) MSSCVSSQPSSNRAAPQDELGGRGSSSSESQKPCEALRGLSSLSIHLGMESFIVVTECEPGCAVDLGLAR DRPLEADGQEVPLDSSGSQARPHLSGRKLSLQERSQGGLAAGGSLDMNGRCICPSLPYSPVSSPQSSPRL PRRPTVESHHVSITGMQDCVQLNQYTLKDEIGKGSYGVVKLAYNENDNTYYAMKVLSKKKLIRQAGFPRR PPPRGTRPAPGGCIQPRGPIEQVYQEIAILKKLDHPNVVKLVEVLDDPNEDHLYMVFELVNQGPVMEVPT LKPLSEDQARFYFQDLIKGIEYLHYQKIIHRDIKPSNLLVGEDGHIKIADFGVSNEFKGSDALLSNTVGT PAFMAPESLSETRKIFSGKALDVWAMGVTLYCFVFGQCPFMDERIMCLHSKIKSQALEFPDQPDIAEDLK DLITRMLDKNPESRIVVPEIKLHPWVTRHGAEPLPSEDENCTLVEVTEEEVENSVKHIPSLATVILVKTM IRKRSFGNPFEGSRREERSLSAPGNLLTKQGSEDNLQGTDPPPVGEEEVLL TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_705719
RefSeq Size:	5577
RefSeq ORF:	1623

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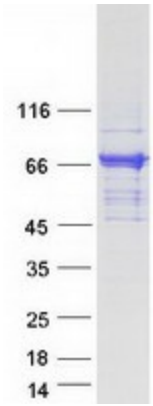
Synonyms:	CAMKK; CAMKKB
Locus ID:	10645
UniProt ID:	Q96RR4, A0A024RBP6
Cytogenetics:	12q24.31
Summary:	The product of this gene belongs to the Serine/Threonine protein kinase family, and to the Ca(2+)/calmodulin-dependent protein kinase subfamily. The major isoform of this gene plays a role in the calcium/calmodulin-dependent (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]
Protein Families:	Druggable Genome, Protein Kinase, Transcription Factors
Protein Pathways:	Adipocytokine signaling pathway

Product images:



Coomassie blue staining of purified CAMKK2 protein (Cat# [TP319152]). The protein was produced from HEK293T cells transfected with CAMKK2 cDNA clone (Cat# [RC219152]) using MegaTran 2.0 (Cat# [TT210002]).