Recombinant Human CAMKK2 Protein, MYC/DDK-tagged

Cat. No. CAMKK2-2490H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CAMKK2 protein, fused to MYC/DDK-tagged at C-terminus, was expressed in HEK293.
Species	Human
Source	HEK293
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.
Form	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	59.4 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method

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GENE INFORMATION

Gene Name	CAMKK2 calcium/calmodulin-dependent protein kinase kinase 2, beta [Homo sapiens]
Official Symbol	CAMKK2
Synonyms	CAMKK; CAMKKB
Gene ID	10645
mRNA Refseq	NM_006549
Protein Refseq	NP_006540
UniProt ID	Q96RR4

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