

Active Recombinant Rat Camkk1, GST-tagged

Cat. No. Camkk1-106R Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length rat CAMKK1 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Rat
Source	Sf9 Cells
Description	<p>CAMKK1 or CAMKKalpha is a Ca(2+)/calmodulin-dependent protein kinase that activates CAM-kinases I and IV via phosphorylation of their Thr(177) and Thr(196) residues, respectively. Recent studies have shown that the activity of CAMKK1 is decreased upon phosphorylation by cAMP-dependent protein kinase (PKA) The CAMKKalpha has been identified in intact cells as AMPKKs, predicting a significant role for this kinase in regulating AMPK activity in vivo. It has been shown that 2-deoxyglucose- and ionomycin-stimulated AMPK activity is substantially reduced in HeLa cells transfected with small interfering RNAs specific for CAMKKalpha.</p>
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	The specific activity of CAMKK1 was determined to be 9 nmol /min/mg
Molecular Mass	~88 kDa
Purity	>85% by densitometry

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Applications	Kinase Assay, Western Blot
Storage	Store product at -70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1 µg/µl
GENE INFORMATION	
Gene Name	Camkk1 calcium/calmodulin-dependent protein kinase kinase 1, alpha [Rattus norvegicus]
Official Symbol	Camkk1
Synonyms	CAMKK1; calcium/calmodulin-dependent protein kinase kinase 1, alpha; calcium/calmodulin-dependent protein kinase kinase 1; caMKK 1; caM-KK 1; alpha CaMKK; caMKK alpha; caM-KK alpha; caM-kinase kinase 1; caM-kinase IV kinase; caM-kinase kinase alpha; calcium/calmodulin-dependent protein kinase kinase alpha;
Gene ID	60341
mRNA Refseq	NM_031662
Protein Refseq	NP_113850
Pathway	Adipocytokine signaling pathway, organism-specific biosystem; Adipocytokine signaling pathway, conserved biosystem;
Function	ATP binding; calmodulin binding; calmodulin-dependent protein kinase activity; calmodulin-dependent protein kinase activity; nucleotide binding; protein

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serine/threonine kinase activity; protein serine/threonine kinase activity;

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