



# Recombinant Rat Calcium/calmodulin-dependent protein kinase kinase 2 (Camkk2)

<b>Product Code</b>	CSB-YP004473RA
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	O88831
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	SSCVSSQPT SDRAAPQDEL GSGGVSRESQ KPCEALRGLS SLSIHLGMES FIVVTECEPG RGVDSLARD QPLEADGQEL PLDASEPESR SLLSGGKMSL QERSQGGPAS SSSLDMNGRC ICPSLSYSPA SSPQSSPRMP RRPTVESHHV SITGLQDCVQ LNQYTLKDEI GKGSYGVVKL AYNENDNTYY AMKVLSKKKL IRQAGFRRP PPRGTRPAPG GCIQPRGPIE QVYQEIAILK KLDHPNVVKL VEVLDDPNED HLYMVFELVN QGPVMEVPTL KPLSEDQARF YFQDLIKGIE YLHYQKIIHR DIKPSNLLVG EDGHIKIADF GVSNEFKGSD ALLSNTVGTP AFMAPESLSE TRKIFSGKAL DVWAMGVTLY CFVFGQCPFM DERIMCLHSK IKSQALEFPD QPDIAEDLKD LITRMLDKNP ESRIVVPEIK LHPWVTRHGA EPLPSEDENC TLVEVTEEEV ENSVKHIPSL ATVILVKTMI RKRSFGNPFE GSRREERSLS APGNLLTKKP TREWEPLSEP KEARQRRQPP GPRASPCGGG GSALVKGGPC VESCGAPAPG SPPRTPPQQP EEAMEPE
<b>Source</b>	Yeast
<b>Target Names</b>	Camkk2
<b>Protein Names</b>	Recommended name: Calcium/calmodulin-dependent protein kinase kinase 2 Short name= CaM-KK 2 Short name= CaM-kinase kinase 2 Short name= CaMKK 2 EC= 2.7.11.17 Alternative name(s): Calcium/calmodulin-dependent protein kin
<b>Expression Region</b>	2-587
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	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.



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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.