



Recombinant Rat Protein kinase C alpha type (Prkca)

Product Code	CSB-EP018699RA-B
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P05696
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	>85% (SDS-PAGE)
Sequence	ADVYPANDS TASQDVANRF ARKGALRQKN VHEVKDHFKI ARFFKQPTFC SHCTDFIWGF GKQGFQCQVC CFVVHKRCHE FVTFSCPGAD KGPDTDDPRS KHKFKIHTYG SPTFCDHCGS LLYGLIHQGM KCDTCDMNVH KQCVINVPSL CGMDHTEKRG RIYLKAEVTD EKLHVTVRDA KNLIPMDPNG LSDPYVKLKL IPDPKNESKQ KTKTIRSTLN PQWNESFTFK LKPSDKDRRL SVEIWDWDRT TRNDFMGSL S FGVSELMKMP ASGWYKLLNQ EEEGEYYNVPI PEGDEEGNVE LRQKFEKAKL GPAGNKVISP SEDRKQPSNN LDRVKLDFN FLMVLGKGSF GKVMLADRKG TEELYAIKIL KKDVIQDDD VECTMVEKRV LALLDKPPFL TQLHSCFQTV DRLYFVMEYV NGGDLMYHIQ QVGKFKEPQA VFYAAEISIG LFFLHKRGII YRDLKLDNVM LDSEGHKIA DFGMCKEHMM DGVTTTRTF CG TPDYIAPEII AYQPYGKSVD WWAYGVLLYE MLAGQPPFDG EDEDELFSI MEHNVSYPKS LSKEAVSICK GLMTKHPAKR LGCGPEGERD VREHAFFRRI DWEKLENREI QPPFKPKVCG KGAENFDKFF TRGQPVLTPP DQLVIANIDQ SDFEGFSYVN PQFVHPILQS AV
Source	E.coli
Target Names	Prkca
Protein Names	Recommended name: Protein kinase C alpha type Short name= PKC-A Short name= PKC-alpha EC= 2.7.11.13
Expression Region	2-672
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	Protein kinase C (PKC) is a family of serine- and threonine-specific protein kinases that can be activated by calcium and the second messenger diacylglycerol. PKC family members phosphorylate a wide variety of protein targets and are known to be involved in diverse cellular signaling pathways. PKC family members also serve as major receptors for phorbol esters, a class of tumor promoters. Each member of the PKC family has a specific expression profile and is believed to play a distinct role in cells. This protein is one of the PKC family members. This kinase has been reported to play roles in many different cellular processes, such as cell adhesion, cell transformation, cell cycle



checkpoint, and cell volume control. Knockout studies in mice suggest that this kinase may be a fundamental regulator of cardiac contractility and Ca(2+) handling in myocytes.

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.

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.