



Recombinant Rat Calcium/calmodulin-dependent protein kinase type II subunit gamma (Camk2g)

Product Code	CSB-EP004468RA-B
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P11730
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	>85% (SDS-PAGE)
Sequence	MATTATCTRF TDDYQLFEEL GKGAFSVVRR CVKKTSTQEY AAKIINTKKL SARDHQKLER EARICRLLKH PNIVRLHDSI SEEGFHLYLVF DLVTGGELFE DIVAREYYSE ADASHCIHQI LESVNHIIHQH DIVHRDLKPE NLLLASKCKG AAVKLADFGL AIEVQGEQQA WFGFAGTPGY LSPEVLRKDP YGKPVDIWAC GVILYILLVG YPPFWDEDQH KLYQQIKAGA YDFPSPEWDT VTPEAKNLIN QMLTINPAKR ITADQALKHP WVCQRSTVAS MMHRQETVEC LRKFNARRKL KGAILTTMLV SRNFSVGRQS SAPASPAASA AGLAGQAAS LLNKKSDGGV KKRKSSSSVH LMPEQTTVVH NATDGIKGST ESCNTTTEDE DLKVRKQEI KITEQLIEAI NNGDFEAYTK ICDPGLTSFE PEALGNLVEG MDFHKFYFEN LLSKNSKPIH TTILNPHVHV IGEDAACIAY IRLTQYIDGQ GRPRTSQSEE TRVWHRRDGK WLVNHYHCSG APAAPLQ
Source	E.coli
Target Names	Camk2g
Protein Names	Recommended name: Calcium/calmodulin-dependent protein kinase type II subunit gamma Short name= CaM kinase II subunit gamma Short name= CaMK-II subunit gamma EC= 2.7.11.17
Expression Region	1-527
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 protein
Target Details	The product of this gene belongs to the Serine/Threonine protein kinase family, and to the Ca(2+)/calmodulin-dependent protein kinase subfamily. Calcium signaling is crucial for several aspects of plasticity at glutamatergic synapses. In mammalian cells the enzyme is composed of four different chains: alpha, beta, gamma, and delta. The product of this gene is a gamma chain. Six alternatively spliced variants that encode six different isoforms have been characterized to date. Additional alternative splice variants that encode different isoforms have been described, but their full-length nature has not been determined.
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.