



Recombinant Mouse Protein kinase C iota type (Prkci)

Product Code	CSB-MP714008MO
Abbreviation	Prkci
Storage	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.
Uniprot No.	Q62074
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	>85% (SDS-PAGE)
Sequence	PTQRDSSTM SHTVACGGGG DSHQVRVKA YYRGDIMITH FEPSISFEG CSEVRDMCSF DNEQPFTMKW IDEEGDPCTV SSQLELEEF RLYELNKDSE LLIHVFPCVP ERPGMPCPGE DKSIYRRGAR RWRKLYCANG HTFQAKRFNR RAHCAICTDR IWGLGRQGYK CINCKLLVHK KCHKLVITIEC GRHSLPPEPM MPMDQTMHPD HTQTVIPYNP SSHESLDQVG EEKEAMNTRE SGKASSSLGL QDFDLLRVIG RGSYAKVLLV RLKKTDRIFA MKVVKKELVN DDEDIDWVQT EKHFVEQASN HPFLVGLHSC FQTESRLFFV IEYVNGGDL M FHMQRQRKLP EEHARFYSAE ISLALNYLHE RGIIYRDLKL DNVLLDSEGH IKLTDYGMCK EGLRPGDTTS TFCGTPNYIA PEILRGEDYG FSVDWWALGV LMFEMMAGRS PFDIVGSSDN PDQNTEDYLF QVILEKQIRI PRSLSVKAAS VLKSFNLKDP KERLGCHPQT GFADIQGHFP FRNVDWDMME QKQVPPFKP NISGEFGLDN FDSQFTNEPV QLTPDDDDIV RKIDQSEFEG FEYINPLLS AEECV
Source	Mammalian cell
Target Names	Prkci
Protein Names	Recommended name: Protein kinase C iota type EC= 2.7.11.13 Alternative name(s): Atypical protein kinase C-lambda/iota Short name= aPKC-lambda/iota nPKC-iota
Expression Region	2-595
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	This gene encodes a member of the protein kinase C (PKC) family of serine/threonine protein kinases. The PKC family comprises at least eight members, which are differentially expressed and are involved in a wide variety of cellular processes. This protein kinase is calcium-independent and phospholipid-dependent. It is not activated by phorbol esters or diacylglycerol.



This kinase can be recruited to vesicle tubular clusters (VTCs) by direct interaction with the small GTPase RAB2, where this kinase phosphorylates glyceraldehyde-3-phosphate dehydrogenase (GAPD/GAPDH) and plays a role in microtubule dynamics in the early secretory pathway. This kinase is found to be necessary for BCL-ABL-mediated resistance to drug-induced apoptosis and therefore protects leukemia cells against drug-induced apoptosis. There is a single exon pseudogene mapped on chromosome X.

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

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