

Recombinant Human PRKCG Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PRKCG-4456H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PRKCG MS Standard C13 and N15-labeled recombinant protein (NP_002730) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Protein kinase C (PKC) is a family of serine- and threonine-specific protein kinases that can be activated by calcium and 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 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 distinct roles in cells. The protein encoded by this gene is one of the PKC family members. This protein kinase is expressed solely in the brain and spinal cord and its localization is restricted to neurons. It has been demonstrated that several neuronal functions, including long term potentiation (LTP) and long term depression (LTD), specifically require this kinase. Knockout studies in mice also suggest that this kinase may be involved in neuropathic pain development. Defects in this protein have been associated with neurodegenerative disorder spinocerebellar ataxia-14 (SCA14). Two transcript variants encoding different isoforms have been found for this gene.
Molecular Mass	78.4 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

AA Sequence

MAGLGPGVGDSEGGPRPLFCRKALRQKVVEVKSHKFTARFFKQPTFCSHCTDFI
 WGIGKQGLQCQVCSFVHRRCHEFVTFECPGAGKGPQTDDPRNKHKFRLLHSYSSP
 TFCDHCGSLLYGLVHQGMKSCCEMNVHRRCVRSVPSLCGVDHTERRGRLQLEIR
 APTADEIHVTVGARNLIPMDPNGLSDPYVKLKLIPDPRNLTKQKTRTVKATLNPVWN
 ETFVFNLPKPGDVERRLSVEVWDWDRTSRNDFMGAMSGVSELLKAPVDGWYKLLN
 QEEGEYYNVPVADADNCSLLQKFEACNYPLELYERVRMGPSSSIPSPSPSPPTDPK
 RCFFGASPGRLHISDFSFLMVLGKGSFGKVMLAERRGSDELYAIKILKKDVIVQDDDV
 DCTLVEKRVLALGGRPGGRPHFLTQLHSTFQTPDRLYFVMEYVTGGDLMYHIQQL
 GKFKEPHAAFYAAEIAIGLFFLHNQGIYRDLKLDNVMLDAEGHIKITDFGMCKENVFP
 GTTTRTFCGTPDYIAPEIIAYQPYGKSVDWWSFGVLLYEMLAGQPPFDGEDEEELFQ
 AIMEQTVTYPKSLSREAVAICKGFLT KHPGKRLGSGPDGEPTIRAHGFFRWIDWERL
 ERLEIPPPFRPRPCGRSGENFDKFFTRAAPALTPPDRLVLASIDQADFQGFYVNPDP
 FVHPDARSPTSPVPVPMTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

Stability

Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage

Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration

50 µg/mL as determined by BCA

Storage Buffer

100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION
Gene Name

PRKCG protein kinase C gamma [Homo sapiens (human)]

Official Symbol

PRKCG

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Synonyms	PRKCG; protein kinase C, gamma; PKCG, SCA14; protein kinase C gamma type; MGC57564; PKC gamma; PKCC; PKCG; SCA14; PKC-gamma;
Gene ID	5582
mRNA Refseq	NM_002739
Protein Refseq	NP_002730
MIM	176980
UniProt ID	P05129
SDS-PAGE	