

Recombinant Full Length Human PRKCG Protein, DYKDDDDK-tagged

Cat. No. PRKCG-405H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant protein from the full-length sequence of homo sapiens protein kinase C gamma (PRKCG), transcript variant 2 (NM_002739), with a DYKDDDDK tag was expressed in human cells.
Species	Human
Source	Human Cells
ProteinLength	1-697 a.a.
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

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variants encoding different isoforms have been found for this gene.

Molecular Mass	78.3 kDa
Endotoxin	Endotoxin level is < 0.1 ng/μg of protein (<1 EU/μg)
Purity	> 90% by SDS-PAGE gel and Coomassie Blue staining
Applications	Antigens, Western, ELISA and other in vitro binding or in vivo functional assays, and protein-protein interaction studies; For research & development use only!
Storage Buffer	Purified protein formulated in a sterile solution of TBS buffer, pH7.4, without any preservatives

GENE INFORMATION

Gene Name	PRKCG protein kinase C gamma [Homo sapiens (human)]
Official Symbol	PRKCG
Synonyms	PRKCG; protein kinase C gamma; PKCC; PKCG; SCA14; PKCI(3); PKCgamma; PKC-gamma; protein kinase C gamma type; EC 2.7.11.13
Gene ID	5582
mRNA Refseq	NM_002739
Protein Refseq	NP_002730
MIM	176980

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UniProt ID

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