

## Product datasheet for **TP308502**

### PKC gamma (PRKCG) (NM\_002739) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins  
**Description:** Recombinant protein of human protein kinase C, gamma (PRKCG), 20 µg  
**Species:** Human  
**Expression Host:** HEK293T  
**Expression cDNA Clone or AA Sequence:** >RC208502 protein sequence  
**Red**=Cloning site **Green**=Tags(s)

MAGLPGVGDSEGGPRPLFCRKGALRQKVHEVKSHKFTARFFKQPTFCSHCTDFIWGIGKQGLQCQVCS  
FVHRRCHEFVTFECPGAGKGPQTDDPRNKHKFRLLHSYSSPTFCDHCGSLLYGLVHQGMKSCCEMNVHR  
RCVRSVPSLCGVDHTERRGRLQLEIRAPTADEIHVTVGEARNLIPMDPNGLSDPYVKLKLIPDPRNLTKQ  
KTRTVKATLNPVWNETFVFNLPKPGDVERRLSVEVWDWDRSRNDFMGAMSGVSELLKAPVDGWYKLLNQ  
EEGEYYNVPVADADNCSLLQKFEACNYPLELYERVRMGPSSSPIPSPSPTDPKRCFFGASPGRLHISD  
FSFLMVLGKGSFGKVMLAERRGSDELYAIKILKKDVIVQDDDDVDCTLVEKRVLALGGRGPGGRPHFLTQL  
HSTFQTPDRLYFVMEYVTGGDLMIYHIQQLGKFKEPHAAFYAAEIAIGLFFLHNQGIYRDLKLDNVMMLDA  
EGHIKITDFGMCKENVFPGTTTTRTFCGTPDYIAPEIIAYQPYGKSVDWWSFGVLLYEMLAGQPPFDGEDE  
EELFQAIMEQTVTYPKSLRSREAVAICKGFLTKHPGKRLGSGPDGEPTIRAHGFFRWIDWERLERLEIPPP  
FRPRPCGRSGENFDKFFTRAAPALTPDRLVLASIDQADFQGFYVNPDPFVHPDARSPTSPVPVPM

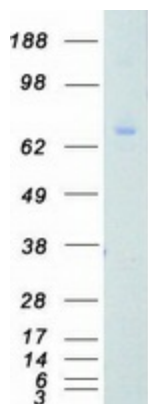
**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-Myc/DDK  
**Predicted MW:** 78.3 kDa  
**Concentration:** >0.05 µg/µL as determined by microplate BCA method  
**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining  
**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol  
**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.  
**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.  
**Storage:** Store at -80°C.



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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<u>NP_002730</u>
<b>Locus ID:</b>	5582
<b>UniProt ID:</b>	<u>P05129</u>
<b>RefSeq Size:</b>	3143
<b>Cytogenetics:</b>	19q13.42
<b>RefSeq ORF:</b>	2091
<b>Synonyms:</b>	PKC-gamma; PKCC; PKCG; PKCgamma; PKCI(3); SCA14
<b>Summary:</b>	<p>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. [provided by RefSeq, Oct 2015]</p>
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Protein Pathways:</b>	Calcium signaling pathway, ErbB signaling pathway, Fc gamma R-mediated phagocytosis, Focal adhesion, Gap junction, Glioma, Leukocyte transendothelial migration, Long-term depression, Long-term potentiation, MAPK signaling pathway, Melanogenesis, Natural killer cell mediated cytotoxicity, Non-small cell lung cancer, Pathways in cancer, Phosphatidylinositol signaling system, Tight junction, Vascular smooth muscle contraction, VEGF signaling pathway, Vibrio cholerae infection, Wnt signaling pathway

**Product images:**

Coomassie blue staining of purified PRKCG protein (Cat# TP308502). The protein was produced from HEK293T cells transfected with PRKCG cDNA clone (Cat# [RC208502]) using MegaTran 2.0 (Cat# [TT210002]).