

OriGene Technologies, Inc.

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Product datasheet for PH308502

PKC gamma (PRKCG) (NM_002739) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards	
Description:	PRKCG MS Standard C13 and N15-labeled recombinant protein (NP_002730)	
Species:	Human	
Expression Host:	HEK293	
Expression cDNA Clone or AA Sequence:	RC208502	
Predicted MW:	78.4 kDa	
Protein Sequence:	>RC208502 protein sequence Red=Cloning site Green=Tags(s)	
	MAGLGPGVGDSEGGPRPLFCRKGALRQKVVHEVKSHKFTARFFKQPTFCSHCTDFIWGIGKQGLQCQVCS FVVHRRCHEFVTFECPGAGKGPQTDDPRNKHKFRLHSYSSPTFCDHCGSLLYGLVHQGMKCSCCEMNVHR RCVRSVPSLCGVDHTERRGRLQLEIRAPTADEIHVTVGEARNLIPMDPNGLSDPYVKLKLIPDPRNLTKQ KTRTVKATLNPVWNETFVFNLKPGDVERRLSVEVWDWDRTSRNDFMGAMSFGVSELLKAPVDGWYKLLNQ EEGEYYNVPVADADNCSLLQKFEACNYPLELYERVRMGPSSSPIPSPSPSPTDPKRCFFGASPGRLHISD FSFLMVLGKGSFGKVMLAERRGSDELYAIKILKKDVIVQDDDVDCTLVEKRVLALGGRGPGGRPHFLTQL HSTFQTPDRLYFVMEYVTGGDLMYHIQQLGKFKEPHAAFYAAEIAIGLFFLHNQGIIYRDLKLDNVMLDA EGHIKITDFGMCKENVFPGTTTRTFCGTPDYIAPEIIAYQPYGKSVDWWSFGVLLYEMLAGQPPFDGEDE EELFQAIMEQTVTYPKSLSREAVAICKGFLTKHPGKRLGSGPDGEPTIRAHGFFRWIDWERLERLEIPPP FRPRPCGRSGENFDKFFTRAAPALTPPDRLVLASIDQADFQGFTYVNPDFVHPDARSPTSPVPVPVM	
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV	
Tag:	C-Myc/DDK	
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining	
Concentration:	>0.05 µg/µL as determined by microplate BCA method	
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine	
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3	
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.	
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.	
RefSeq:	<u>NP 002730</u>	
RefSeq Size:	3143	



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	PKC gamma (PRKCG) (NM_002739) Human Mass Spec Standard – PH308502	
RefSeq ORF:	2091	
Synonyms:	PKC-gamma; PKCC; PKCG; PKCgamma; PKCl(3); SCA14	
Locus ID:	5582	
UniProt ID:	<u>P05129</u>	
Cytogenetics:	19q13.42	
Summary: Protein kinase C (PKC) is a family of serine- and threonine-specific protein kinase activated by calcium and second messenger diacylglycerol. PKC family member phosphorylate a wide variety of protein targets and are known to be involved i cellular signaling pathways. PKC also serve as major receptors for phorbol estet tumor promoters. Each member of the PKC family has a specific expression probelieved to play distinct roles in cells. The protein encoded by this gene is one of family members. This protein kinase is expressed solely in the brain and spinal localization is restricted to neurons. It has been demonstrated that several neurofunctions, including long term potentiation (LTP) and long term depression (LTI require this kinase. Knockout studies in mice also suggest that this kinase may neuropathic pain development. Defects in this protein have been associated w neurodegenerative disorder spinocerebellar ataxia-14 (SCA14). Two transcription encoding different isoforms have been found for this gene. [provided by RefSet]		
Protein Families	Druggable Genome, Protein Kinase	
Protein Pathway	s: 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:

188	-
98	-
62	
49	-
38	-
28	-
17	_
14	-
63	=

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]).

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