

OriGene Technologies, Inc.

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Product datasheet for PH300438

PKC zeta (PRKCZ) (NM_001033581) Human Mass Spec Standard

Product data:

Description:PRKCZ MS Standard C13 and N15-labeled recombinant protein (NP_001028753)Species:HumanExpression Host:HEK293Expression cDNA CloneRC200438or AA Sequence:97.Predicted MW:67.7 kDaProtein Sequence:PRC200438 representing NM_001033581Red=Cloning site Green=Tags(s)SSQMELEEAFRLARQCSGRVRLKAHYG0DIFTISVDAATTFEELCEEVRDMCRLHQOHPLTLKWDSEGDPCTVSSQMELEEAFRLARQCSGRVRLKAHYG0DIFTISVDAATTFEELCEEVRDMCRLHQOHPLTLKWDSEGDPCTVSSQMELEEAFRLARQCSGRVRLKAHYG0DIFTISVDAATTFEELCEEVRDMCRLHQOHPLTLKWDSEGDPCTVSSQMELEEAFRLARQCSGRVRLKAHYG0DIFTISVDAATTFEELCEEVRDMCRLHQOHPLTKWDSEGDPCTVSSQMELEEAFRLARQCSGRVRLKAHYG0DIFTISVDAATTFEELCEEVRDMCRLHQOHPLTKWDSEGDPCTVSSQMELEEAFRLARQCSDRSDLKWDDDGDDGVSTSSGRVRLKAHYG0DIFTSSUPAUENAWSSSQTEEREAFLARQCSDRSDLKWDDDDDVSTDABLEDVENDDDLFSGLDKPUNGDDLFSGRUPUNGTag:C-Myc/DDKTag:C-Myc/DDKPurity:>80% as determined by SDS-PAGE and Coomassie blue stainingConcentration:>0.05 µg/µL as determined by microplate BCA methodLabeling Method:Labeled with [U-13C6, 15N4]-L-Arginine and [U-13C6, 15N2]-L-LysineBuffer:Stora et-80°C. Avoid repeated freez-thaw cycles.Storage:Stora et-80°C. Avoid repeated freez-thaw cycles.Refseg:NP_001028753	Product Type:	Mass Spec Standards	
Expression Host:HEK293Expression cDNA Clone or AA Sequence:Rc200438Predicted MW:67.7 kDaProtein Sequence:Rc200438 representing NM_001033581 Red=Cloning site Green=Tags(s)Protein Sequence:Rc200438 representing NM_001033581 Red=Cloning site Green=Tags(s)MPSRTGPKMEGSGGRVRLKAHVGGDIFITSVDAATTFEELCEEVRDMCRLHQQHPLTLKWVDSEGDPCTV SSQMELEEAFRLARQCRDEGLIINVPFSTPEQPGLPCPGEDKSIYRGARRWRKLYRANGHLPQAKFNR RAVCGQCSERTWGLARQCYRCINCKLLVHKRCHGLVPLTCRKHNDSVMPSQEPPVDDKNEDADLPSEETD GIAVISSRKHDSINDSDEDLKPTDEMGETKISQGLGQFD0LIRVIGRGSVAKVLLVRLKKNDQIYAM KVKKKELHDDEDIDWQTEKHVFEQASSNPFLVGLHSCPGTTSRLFLVEYVNGGDUFHMQQRKLPE ELIRGEEYGFSVDWALGVLMEEKMAGRSPFDIITDNDMMTEDVLPQVILEKPIRIPRFLSVKASHVLK GFLIKNOPKERLGCRPQTGFSDIKSLAFFRSIDWDLLEKKQALPPFQQITDDYGLDNFDTSFC9TPVDIAP ELIRGEEYGFSVDWALGVLMFEMAGRSPFDIITDNDDMXTEDVLPQVILEKPIRIPRFLSVKASHVLK GFLIKNOPKERLGCRPQTGFSDIKSLAFFRSIDWDLLEKKQALPPFQQITDDYGLDNFDTSFEPVQLT PDDEDAIKRIDQSEFEGFEYINPLLLSTEESVTag:C-Myc/DDKPurity:> 80% as determined by SDS-PAGE and Coomassie blue stainingConcentration:> 0.05 µg/µL as determined by microplate BCA methodLabeling Method:Labeled with [U-13C6, 15N4]-L-Arginine and [U-13C6, 15N2]-L-LysineBuffer:> 25 mM Tris-HCI, 100 mM glycine, pH 7.3Storage:> 6tore at -80°C. Avoid repeated freeze-thaw cycles.Storage:> 6table for 3 months from receipt of products under proper storage and handling conditions.	Description:	PRKCZ MS Standard C13 and N15-labeled recombinant protein (NP_001028753)	
Expression cDNA Clone or AA Sequence:RC200438Predicted MW:67.7 kDaProtein Sequence:>RC200438 representing NM_001033581 Red=Cloning site Green=Tags(s)Protein Sequence:>RC200438 representing NM_001033581 Red=Cloning site Green=Tags(s)MPSRTGPKMEGSGGRVRLKAHVGGDIFITSVDAATTFEELCEEVRDMCRLHQQHPLTLKWVDSEGDPCTV SSQMELEEAFRLARQCRDEGLIHVFPSTPEQPGLPCPGEDKSIYRRGARWKKLYRANGHLFQAKRFNR RAVCCQCSERIWGLARQCRRCINCKLLVHKRCHGLVPLTCRKMHDSVMPSQEPPVDDINEDADLPSETD GTAVTSSRKH05TKDDSEDLPVTDMOGTKISQGLGLQPDDIPVIRGSYXKULVRKKNDQTVM KVVKKELVHDDEDIDWQTEKHVFEQASSNPLVGLHSCFQTTSRLFLVIEYVNGGDLMFHMQRQRKLPE EHARPYAAETCTALNFLHERGTIVRDLKLDMVLLDADGHIKLTDYGMCKEGLGPGDTSTFCGTPNYIAP EIIRGEEYGFSVDWWALGVMFEMMAGRSPFDITDNPDMNTEDYLFQVILEKPIRIPRFLSVKASHVLK GFLNKDPKERLCCRPQTGrSDIKSHAFFRSIDWDLEKKQALPPFQPQITDDYGLDNFDTGFISEPVQLT PDDEDAIKRIDQSEFEGFEYINPLLLSTEESVTag:C-Myc/DDKTag:S0% as determined by SDS-PAGE and Coomassie blue staining Concentration:Qoncentration:>0.05 µg/µL as determined by microplate BCA methodLabeling Method:Labeled with [U-13C6, 15N4]-L-Arginine and [U-13C6, 15N2]-L-LysineBuffer:S0m Aris-HCI, 100 mM glycine, pH 7.3Storage:Stora at 80°C. Avoid repeated freeze-thaw cycles.Stability:Stable for 3 months from receipt of products under proper storage and handling conditions.	Species:	Human	
or AA Sequence:Predicted MW:67.7 kDaProtein Sequence:>RC200438 representing NM_001033581 Red=Cloning site Green=Tags(s)Protein Sequence:>RC200438 representing NM_001033581 Red=Cloning site Green=Tags(s)MPSRTGPKMEGSGGRVRLKAHYGGDIFITSVDAATTFEELCEEVRDMCRLHQ0HPLTLKWDSEGDPCTV SSQMELEEAFRLARQCRDEGLIHVFPSTPEQPGLPCPGEDKSIYRRGARRWRKLYRANGHLFQAKRFNR RAYCGQCSERIWGLARQGYRCINCKLLUHKRCHGLVPLTCRHMDSVMPSOEPVDDKNEDDLPSEETD GIAVISSSRKHDSTDSDELKPUDOMOGTKJSQGLGUOPDLIRVIGRGSYAKULVRLKKNDQLPSEETD ELRGESVGFSVDWALGVLHFEMAGRSPFDITDDHDMTEDVLVRLKLVNRLKNDQRRKLPE ELRGESVGFSVDWALGVLMFEMAGRSPFDITDDHDMTEDVLVRLKLVNRLARKNDQRRKLPE ELRGESVGFSVDWALGVLMFEMAGRSPFDITDDHDMTEDVFQUILEPTRFLSVKASHVLK GFLNKDPKERLGCRPQTGFSDIKSHAFFRSIDWDLLEKKQALPPFQPQITDDYGLDNFDTQFTSEPVQLT PDDEDAIKRIDQSEFEGFEYINPLLLSTEESVTag:C-Myc/DDKTag:C-Myc/DDKConcentration:>0.05 µg/µL as determined by SDS-PAGE and Coomassie blue stainingConcentration:>0.05 µg/µL as determined by microplate BCA methodLabeling Method:Labeled with [U-13C6, 15N4]-L-Arginine and [U-13C6, 15N2]-L-LysineBuffer:25 mM Tris-HCl, 100 mM glycine, pH 7.3Storage:Stora et -80°C. Avoid repeated freeze-thaw cycles.Stability:Stable for 3 months from receipt of products under proper storage and handling conditions	Expression Host:	HEK293	
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Red=Cloning site Green=Tags(s)MPSRTGPKMEGSGGRVRLKAHYGGDIFITSVDAATTFEELCEEVRDMCRLHQQHPLTLKWVDSEGDPCTV SSQMELEEAFRLARQCRDEGLIHVFPSTPEQPGLPCPGEDKSIYRRGARRWRKLYRANGHLFQAKRFNR RAYCGQCSERIWGLARQGYRCINCKLLVHKRCHGLVPLTCRKHMDSVMPSQEPPVDDKNEDADLPSEETD GTAYISSSRkHDSIKDDSEDLRPVIDGMGIKISQGLGLQDPDLIRVIGRGSYAKVLLVRLKKNDQIYAM KVVKKELVHDDEDIDIWVQTEKHVFEQASSNPFLVGLHSCFQTTSRLFLVIEYVNGGDLMFHMQRQRKLPE EHARFVAAEICIALNFLHERGIIYRDLKLDNVLLDADGHIKLTDYGMCKGLGGPDTTSFCGTPNVIAP EILRGEEYGFSVDWWALGVLMFEMMAGRSPFDIITDNPDMNTEDYLFQVILEKPIRIPRFLSVKASHVLK GFLNKDPKERLGCRPQTGFSDIKSHAFFRSIDWDLLEKKQALPPFQPQITDDYGLDNFDTQFTSEPVQLT PDDEDAIKRIDQSEFEGFEYINPLLLSTEESV SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKVTag:C-Myc/DDKPurity:> 80% as determined by SDS-PAGE and Coomassie blue stainingConcentration:> 0.05 µg/µL as determined by microplate BCA methodLabeling Method:Labeled with [U-13C6, 15N4]-L-Arginine and [U-13C6, 15N2]-L-LysineBuffer:25 mM Tris-HCl, 100 mM glycine, pH 7.3Storage:Store at -80°C. Avoid repeated freeze-thaw cycles.Stability:Stable for 3 months from receipt of products under proper storage and handling conditions.	Predicted MW:	67.7 kDa	
SSQMELEEAFRLARQCRDEGLIIHVFPSTPEQPGLPCPGEDKSIYRRGARRWRKLYRANGHLFQAKRFNR RAYCGQCSERIWGLARQGYRCINCKLLVHKRCHGLVPLTCRKHMDSYMPSQEPPVDDKNEDADLPSEETD GIAYISSSRKHDSIKDDSEDLRVVIDGMDGINSQGLQQFDLIRVIGRGSYAKVLLVRLKKNDQIYAM KVVKKELVHDDEDIDWVQTEKHVFEQASSNPFLVGLLSQLGLQOFDIISTRGFLVIEVNGGDLMFHMQRQRKLPE EHARFYAAEICIALNFLHERGIIYRDKLDNVLDADGHIKLTDYGMCKEGLGCPGTTSTFCGTPNYIAP EILRGEEYGFSVDWALGVLMFEMHAGRSPFDIITDNPDMTTEDVFQVILEKPIRIPRFLSVKASHVLK GFLNKDPKERLGCRPQTGFSDIKSHAFFRSIDWDLLEKKQALPPFQPQITDDYGLDNFDTQFTSEPVQLT PDDEDAIKRIDQSEFEGFEYINPLLLSTEESVTag:C-Myc/DDKPurity:> 80% as determined by SDS-PAGE and Coomassie blue stainingConcentration:> 0.05 µg/µL as determined by microplate BCA methodLabeling Method:Labeled with [U-13C6, 15N4]-L-Arginine and [U-13C6, 15N2]-L-LysineBuffer:25 mM Tris-HCl, 100 mM glycine, pH 7.3Storage:Store at -80°C. Avoid repeated freeze-thaw cycles.Stability:Stabe for 3 months from receipt of products under proper storage and handling conditions	Protein Sequence:		
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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.	Labeling Method:	ling Method: Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine	
Stability:Stable for 3 months from receipt of products under proper storage and handling conditions.	Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3	
	Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.	
RefSeq: <u>NP 001028753</u>	Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.	
	RefSeq:	<u>NP 001028753</u>	
RefSeq Size:2147	RefSeq Size:	2147	
RefSeq ORF: 1776	RefSeq ORF:	1776	



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	PKC zeta (PRKCZ) (NM_001033581) Human Mass Spec Standard – PH300438
Synonyms:	PKC-ZETA; PKC2
Locus ID:	5590
UniProt ID:	<u>Q05513</u>
Cytogenetics:	1p36.33
Summary:	Protein kinase C (PKC) zeta is a member of the PKC family of serine/threonine kinases which are involved in a variety of cellular processes such as proliferation, differentiation and secretion. Unlike the classical PKC isoenzymes which are calcium-dependent, PKC zeta exhibits a kinase activity which is independent of calcium and diacylglycerol but not of phosphatidylserine. Furthermore, it is insensitive to typical PKC inhibitors and cannot be activated by phorbol ester. Unlike the classical PKC isoenzymes, it has only a single zinc finger module. These structural and biochemical properties indicate that the zeta subspecies is related to, but distinct from other isoenzymes of PKC. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]
Protein Families	: Druggable Genome, Protein Kinase
Protein Pathway	/s: Chemokine signaling pathway, Endocytosis, Insulin signaling pathway, Tight junction, Type II diabetes mellitus

Product images:

116 -	- 1
66 -	
45 -	- 11
35 -	-
25 -	-
18 -	-
14 -	-

Coomassie blue staining of purified PRKCZ protein (Cat# [TP300438]). The protein was produced from HEK293T cells transfected with PRKCZ cDNA clone (Cat# [RC200438]) using MegaTran 2.0 (Cat# [TT210002]).

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