

Product datasheet for PH302472

PKC zeta (PRKCZ) (NM_002744) Human Mass Spec Standard

Product data:

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|---------------------------------------|---|
| Product Type: | Mass Spec Standards |
| Description: | PRKCZ MS Standard C13 and N15-labeled recombinant protein (NP_002735) |
| Species: | Human |
| Expression Host: | HEK293 |
| Expression cDNA Clone or AA Sequence: | RC202472 |
| Predicted MW: | 67.7 kDa |
| Protein Sequence: | >RC202472 protein sequence Red=Cloning site Green=Tags(s) |

MPSRTGPKMEGSGGRVRLKAHYGGDIFITSVDAATTFEELCEEVRDMCRLHQQHPLTLKVVWVSEGDPTV
SSQMELEEAFLARQCRDEGLIIHVFPSTPEQGLPCPGEDKSIYRRGARRWRKLYRANGHLFQAKRFNR
RAYCGQCSEIRIWLARQGYRCINCKLLVHKRCHGLVPLTCRKHMSVMPSEQEPPVDDKNEDADLPSEETD
GIAYISSSRKHDSIKDSEDLPVIDGMDGIKISQGLGLQDFDLIRVIGRGSYAKVLLVRLKKNQDIYAM
KVVKKELVHDDDEDIDWVQTEKHVFEQASSNPFLVGLHSCFQTTSRFLVIEYVNGGDLFMHMQRQRKLPE
EHARFYAAEICIALNFLHERGIIYRDLKLDNVLLDADGHIKLTDYGMCKEGLGPGDSTFCGTPNYIAP
EILRGEEYGFSDWWALGVLFMEMMAGRSPFDIITDNPDMNTEDYLFQVILEKPIRIPRFLSVKASHVLK
GFLNKDPKERLGCRPQTGFSDIKSHAFFRSIDWDLLEKKQALPPFQPQITDDYGLDNFDTQFTSEPVQLT
PDEDAIKRIDQSEFEFEGFEYINPLLLSTEEVS

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

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|------------------|--|
| 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- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-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: | NP_002735 |
| RefSeq Size: | 2359 |
| RefSeq ORF: | 1776 |



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Synonyms: PKC-ZETA; PKC2

Locus ID: 5590

UniProt ID: [Q05513](#)

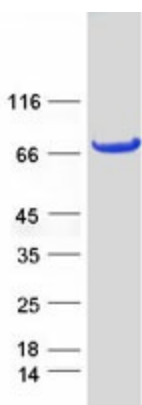
Cytogenetics: 1p36.33

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 Pathways: Chemokine signaling pathway, Endocytosis, Insulin signaling pathway, Tight junction, Type II diabetes mellitus

Product images:



Coomassie blue staining of purified PRKCZ protein (Cat# [TP302472]). The protein was produced from HEK293T cells transfected with PRKCZ cDNA clone (Cat# [RC202472]) using MegaTran 2.0 (Cat# [TT210002]).