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Product datasheet for PH305379

PKC iota (PRKCI) (NM_002740) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PRKCI MS Standard C13 and N15-labeled recombinant protein (NP_002731)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC205379
Predicted MW:	67.3 kDa
Protein Sequence:	>RC205379 protein sequence Red=Cloning site Green=Tags(s) MSHTVAGGGSGDHSHQVRVKAYYRGDIMITHFEPSISFEGLCNEVRDMCSFDNEQLFTMKWIDEEGDPCT VSSQLELEEAFRLYELNKDSELLIHVFPCVPERPGMPCPGEDKSIYRRGARRWRKLYCANGHTFQAKRFN RRAHCAICTDRIWGLGRQGYKCINCKLLVHKKCHKLVTIECGRHSLPQEPVMPMDQSSMHSDHAQTVIPY NPSSHESLDQVGEEKEAMNTRESGKASSSLGLQDFDLLRVIGRGSYAKVLLVRLKKTDRIYAMKVVKKEL VNDDEDIDWVQTEKHVFEQASNHPFLVGLHSCFQTESRLFFVIEYVNGGDLMFHMQRQRKLPEEHARFYS AEISLALNYLHERGIIYRDLKLDNVLLDSEGHIKLTDYGMCKEGLRPGDTTSTFCGTPNYIAPEILRGED YGFSVDWWALGVLMFEMMAGRSPFDIVGSSDNPDQNTEDYLFQVILEKQIRIPRSMSVKAASVLKSFLNK DPKERLGCLPQTGFADIQGHPFFRNVDWDMMEQKQVVPPFKPNISGEFGLDNFDSQFTNERVQLTPDDDD IVRKIDQSEFEGFEYINPLLMSAEECV 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:	NP_002731
RefSeq Size:	4884
RefSeq ORF:	1761

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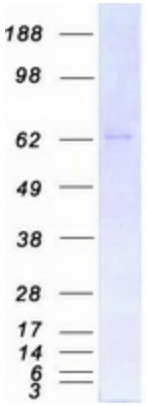
Synonyms:	DXS1179E; nPKC-iota; PKCI
Locus ID:	5584
UniProt ID:	P41743
Cytogenetics:	3q26.2
Summary:	This gene encodes a member of the protein kinase C (PKC) family of serine/threonine protein kinases. The PKC family comprises at least eight members, which are differentially expressed and are involved in a wide variety of cellular processes. This protein kinase is calcium-independent and phospholipid-dependent. It is not activated by phorbolesters or diacylglycerol. This kinase can be recruited to vesicle tubular clusters (VTCs) by direct interaction with the small GTPase RAB2, where this kinase phosphorylates glyceraldehyde-3-phosphate dehydrogenase (GAPD/GAPDH) and plays a role in microtubule dynamics in the early secretory pathway. This kinase is found to be necessary for BCL-ABL-mediated resistance to drug-induced apoptosis and therefore protects leukemia cells against drug-induced apoptosis. There is a single exon pseudogene mapped on chromosome X. [provided by RefSeq, Jul 2008]
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Endocytosis, Insulin signaling pathway, Tight junction

Product images:



Coomassie blue staining of purified PRKCI protein (Cat# [TP305379]). The protein was produced from HEK293T cells transfected with PRKCI cDNA clone (Cat# [RC205379]) using MegaTran 2.0 (Cat# [TT210002]).