

## Recombinant Human PRKCI protein, His-tagged

**Cat. No.** PRKCI-01H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human PRKCI protein, fused to His-tag, was expressed in HEK293T.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	1-596aa
<b>Description</b>	<p>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 phorbol esters 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.</p>
<b>Form</b>	Liquid. In Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol.
<b>Molecular Mass</b>	69 kDa
<b>AA Sequence</b>	MPTQRDSSTM SHTVAGGGSG DHSHQVRVKA YYRGDIMITH FEPSISFEGL

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 45-1 Ramsey Road, Shirley, NY 11967, USA

CNEVRDMCSF DNEQLFTMKW IDEEGDPCTV SSQLELEEAF RLYELNKDSE  
 LLIHVFPVCP ERPGMPCPGE DKSIIYRRGAR RWRKLYCANG HTFQAKRFNR  
 RAHCAICTDR IWGLGRQGYK CINCKLLVHK KCHKLVITIEC GRHSLPQEPV  
 MPMDQSSMHS DHAQTVIPYN PSSHESLDQV GEEKEAMNTR ESGKASSSLG  
 LQDFDLLRVI GRGSYAKVLL VRLKKTDRYI AMKVVKKELV NDDDEDWVQ  
 TEKHVFEQAS NHPFLVGLHS CFQTESRLFF VIEYVNGGDL MFHMQRQRKL  
 PEEHARFYSA EISLALNYLH ERGIIYRDLK LDNVLLDSEG HIKLTDY GMC  
 KEGLRPGDTT STFCGTPNYI APEILRGEDY GFSVDWWALG VLMFEMMAGR  
 SPFDIVGSSD NPDQNTEDYL FQVILEKQIR IPRSLSVKAA SVLKSFLNKD  
 PKERLGCHPQ TGFADIQGHF FFRNVDWDMM EQKQVPPFK PNISGEFGLD  
 NFDSQFTNEP VQLTPDDDDI VRKIDQSEFE GFEYINPLLM SAEECV

**Endotoxin** < 1 EU per 1ug of protein (determined by LAL method).

**Purity** > 80%

**Applications** SDS-PAGE

**Storage** Can be stored at 2 centigrade to 8 centigrade for 1 week. For long term storage, aliquot and store at -20 centigrade to -80 centigrade. Avoid repeated freezing and thawing cycles.

**Concentration** 0.5mg/ml

## GENE INFORMATION

**Gene Name** PRKCI protein kinase C iota [ Homo sapiens (human) ]

**Official Symbol** PRKCI

**Synonyms** DXS1179E, nPKC-iota, PKCI, aPKC-lambda/iota, PRKC-lambda/iota, Protein kinase

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C iota type, Atypical protein kinase C-lambda/iota, PRKCL, Protein Kinase C iota, PRKCI

**Gene ID**

5584

**mRNA Refseq**

NM\_002740.6

**Protein Refseq**

NP\_002731.4

**MIM**

600539

**UniProt ID**

P41743

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