Recombinant Human PRKCI protein, His-tagged

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

SPECIFICATION

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

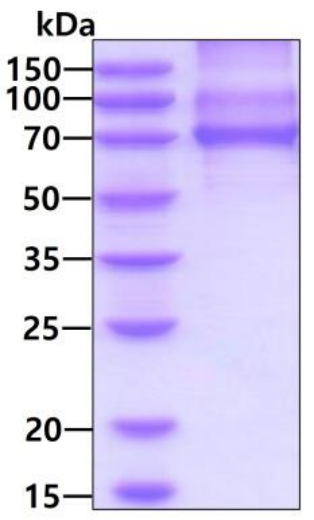
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	CNEVRDMCSF DNEQLFTMKW IDEEGDPCTV SSQLELEEAF RLYELNKDSE LLIHVFPCVP ERPGMPCPGE DKSIYRRGAR RWRKLYCANG HTFQAKRFNR RAHCAICTDR IWGLGRQGYK CINCKLLVHK KCHKLVTIEC GRHSLPQEPV MPMDQSSMHS DHAQTVIPYN PSSHESLDQV GEEKEAMNTR ESGKASSSLG LQDFDLLRVI GRGSYAKVLL VRLKKTDRIY AMKVVKKELV NDDEDIDWVQ TEKHVFEQAS NHPFLVGLHS CFQTESRLFF VIEYVNGGDL MFHMQRQRKL PEEHARFYSA EISLALNYLH ERGIIYRDLK LDNVLLDSEG HIKLTDYGMC KEGLRPGDTT STFCGTPNYI APEILRGEDY GFSVDWWALG VLMFEMMAGR SPFDIVGSSD NPDQNTEDYL FQVILEKQIR IPRSLSVKAA SVLKSFLNKD PKERLGCHPQ TGFADIQGHP FFRNVDWDMM EQKQVVPPFK 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
SDS-PAGE	 3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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