

Recombinant Human PRKCI, His&T7-tagged

Cat. No. PRKCI-406H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PRKCI(Ile375~Val596), fused with two N-terminal Tags, His-tag and T7-tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	Ile375~Val596
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 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.
Form	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Molecular Mass	29.1kDa

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AA Sequence	The target protein is fused with two N-terminal Tags, His-tag and T7-tag, its sequence is listed below. MGSSHHHHHH SSGLVPRGSH MASMTGGQQM GRGSEF- IYRDLK LDNVLLDSEG HIKLTDYGMC KEGLRPGDTT STFCGTPNYI APEILRGEDY GFSVDWWALG VLMFEMMAGR SPFDIVGSSD NPDQNTEDYL FQVILEKQIR IPRSLSVKAA SVLKSFLNKD PKERLGCHPQ TGFADIQGHF FFRNVDWDMM EQKQVVPPFK PNISGEFGLD NFDSQFTNEP VQLTPDDDDI VRKIDQSEFE GFEYINPLLM SAEECV
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	> 95%
Applications	SDS-PAGE; WB; ELISA; IP.
Usage	Reconstitute in sterile PBS, pH7.2-pH7.4.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.

GENE INFORMATION

Gene Name	PRKCI protein kinase C, iota [Homo sapiens (human)]
Official Symbol	PRKCI

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Synonyms	PRKCI; protein kinase C, iota; PKCI; DXS1179E; MGC26534; nPKC-iota; EC 2.7.11.13; Protein kinase C iota type; Atypical protein kinase C-lambda/iota; aPKC-lambda/iota; PRKC-lambda/iota
Gene ID	5584
mRNA Refseq	NM_002740
Protein Refseq	NP_002731
MIM	600539
UniProt ID	P41743
Chromosome Location	3q26.3
Pathway	Cell junction organization; Corticotropin-releasing hormone; G Protein Signaling Pathways
Function	ATP binding; metal ion binding; nucleotide binding; protein domain specific binding

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