

Active Recombinant Full Length Human Protein Kinase C, Iota, GST-tagged

Cat. No. PRKCI-405H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human full-length PKC ι was expressed by baculovirus in Sf9 cell/s using an N-terminal GST tag. MW=98 kDa.
Species	Human
Source	Sf9 Cells
Protein Length	1-596 a.a.
Description	PKC ι is a member of the protein kinase C family of serine-threonine kinases. The amino acid sequence of PKC ι showed greatest homology to PKC ζ , with 72% identity overall rising to 84% in the catalytic domain. Protein kinase C iota (PKC ι) has been implicated in Ras signaling and is a critical downstream effector of oncogenic Ras in the colonic epithelium. Transgenic mice expressing constitutively active PKC ι in the colon are highly susceptible to carcinogen-induced colon carcinogenesis.
Sequence	Full-length.
Applications	Kinase Assay, Western Blot.
Storage And Stability	Store product at -70°C . For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

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GENE INFORMATION

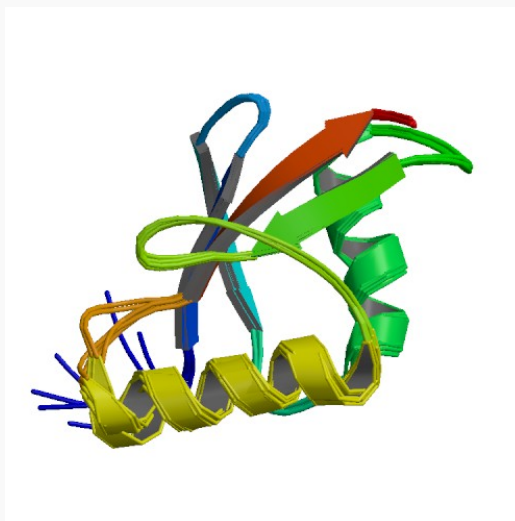
Gene Name	PRKCI protein kinase C, iota [Homo sapiens]
Synonyms	PRKCI; protein kinase C, iota; PKCI; DXS1179E; MGC26534; nPKC-iota; EC 2.7.11.13; Protein kinase C iota type; Atypical protein kinase C-lambda/iota; aPKC-lambda/iota; PRKC-lambda/iota
Gene ID	5584
mRNA Refseq	NM_002740
Protein Refseq	NP_002731
UniProt ID	P41743
Chromosome Location	3q26.3
MIM	600539
Pathway	Tight junction; Signalling by NGF; Endocytosis; Insulin signaling pathway; Cell-cell adhesion systems
Function	ATP binding; protein kinase C activity; metal ion binding; nucleotide binding; transferase activity; zinc ion binding; phospholipid binding; protein binding

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on 1vd2.



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