

Product: PKC iota, active
Catalog #: 02-2048
Amount: 5 µg

DESCRIPTION: PKC iota is a member of the protein kinase C family of serine-threonine kinases. The amino acid sequence of PKC iota showed greatest homology to PKC zeta, with 72% identity overall rising to 84% in the catalytic domain. Protein kinase C iota (PKC iota) 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 iota in the colon are highly susceptible to carcinogen-induced colon carcinogenesis (1). The gene accession number is [NM 002740](#)
Gene Aliases: PRKCI; DXS1179E

SOURCE: Recombinant full-length human PKC iota was expressed by baculovirus in Sf9 insect cells using a N-terminal GST tag

MOLECULAR WEIGHT: 98 kDa

PURITY: > 90% (by densitometry)

FORM: Purified, in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol

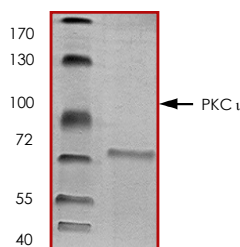
CONCENTRATION: 0.1 mg/ml

SPECIFIC ACTIVITY: 664 nmol/mim/mg

STORAGE: -70°C (aliquot). AVOID repeated Freeze/thaw cycles

REFERENCE:

1. Murray, N R. et al: Protein kinase Ciota is required for Ras transformation and colon carcinogenesis in vivo. J Cell Biol. 2004 Mar 15;164(6):797-802



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