abcam

Product datasheet

Recombinant human PKC delta protein ab60844

1 References 6 Images

Description

Product name	Recombinant human PKC delta protein
Biological activity	Specific Activity: 302 nmol/min/mg.
Purity	> 90 % Densitometry. Affinity purified.
Expression system	Baculovirus infected Sf9 cells
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Tags	GST tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab60844** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Functional Studies SDS-PAGE Western blot
Form	Liquid
Additional notes	Phosphatidylinositol is the most potent activator of PKC delta. **ab204856** (CREB peptide) can be utilized as a substrate for assessing kinase activity

Preparation and Storage

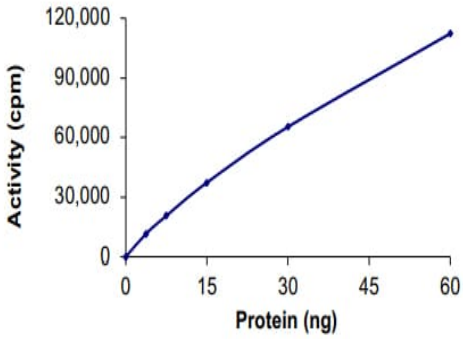
Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 7.50 Constituents: 0.0038% EGTA, 0.00174% PMSF, 0.00385% DTT, 0.79% Tris HCl, 0.00292% EDTA, 25% Glycerol, 0.87% Sodium chloride

This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

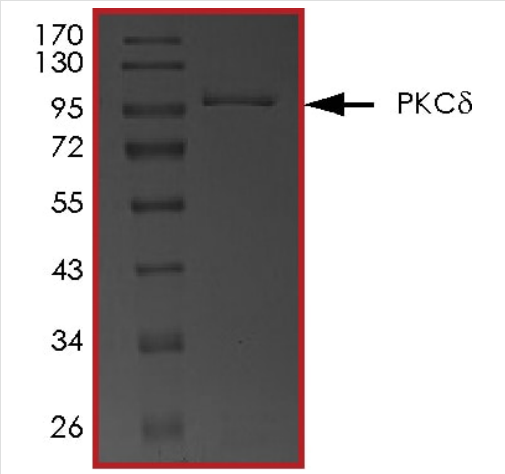
Function	This is calcium-independent, phospholipid-dependent, serine- and threonine-specific enzyme. PKC is activated by diacylglycerol which in turn phosphorylates a range of cellular proteins. PKC also serves as the receptor for phorbol esters, a class of tumor promoters. May play a role in antigen-dependent control of B-cell function. Phosphorylates MUC1 in the C-terminal and regulates the interaction between MUC1 and beta-catenin.
Sequence similarities	Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. PKC subfamily. Contains 1 AGC-kinase C-terminal domain. Contains 1 C2 domain. Contains 2 phorbol-ester/DAG-type zinc fingers. Contains 1 protein kinase domain.
Domain	The C1 domain, containing the phorbol ester/DAG-type region 1 (C1A) and 2 (C1B), is the diacylglycerol sensor. The C2 domain is a non-calcium binding domain. It binds proteins containing phosphotyrosine in a sequence-specific manner.
Post-translational modifications	Phosphorylated on Thr-507, within the activation loop. Autophosphorylated and/or phosphorylated. Although the Thr-507 phosphorylation occurs it is not a prerequisite for enzymatic activity.
Cellular localization	Cytoplasm. Membrane.

Images



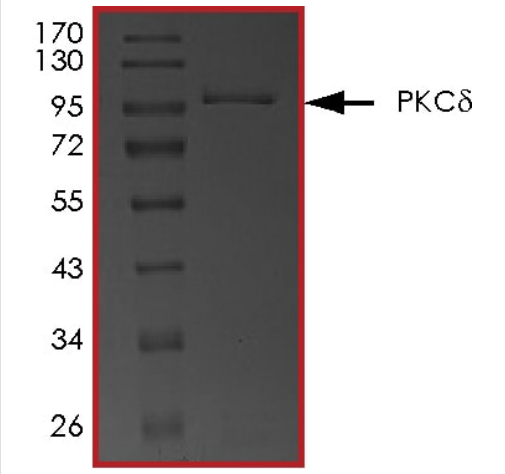
Functional Studies - Recombinant human PKC delta protein (ab60844)

The specific activity of PKC delta (ab60844) was determined to be 250 nmol/min/mg as per activity assay protocol



SDS-PAGE - Recombinant human PKC delta protein (ab60844)

SDS PAGE analysis of ab60844



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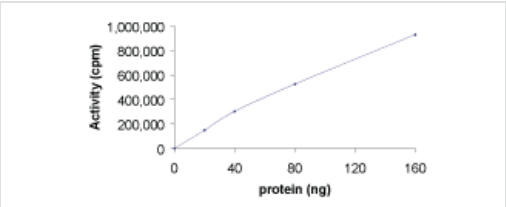
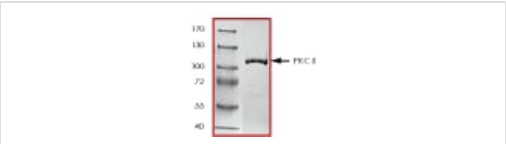


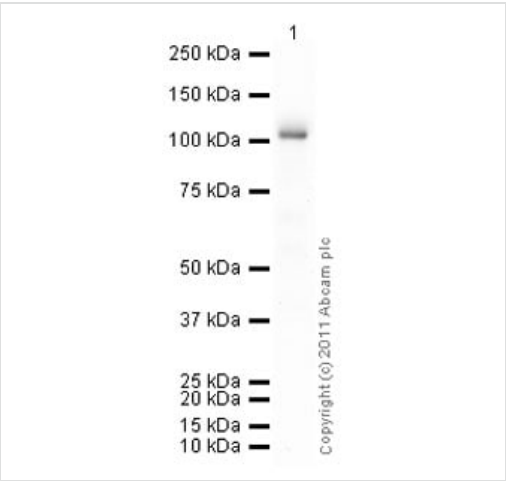
Functional Studies - Recombinant human PKC delta protein (ab60844)

Sample Kinase Activity Plot.



SDS-PAGE - Recombinant human PKC delta protein (ab60844)

ab60844 on SDS-PAGE, MW ~104 kDa.



Western blot - Recombinant human PKC delta protein (ab60844)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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