abcam

Product datasheet

Recombinant human PKC epsilon protein ab60847

5 Images

Description

Product name	Recombinant human PKC epsilon protein
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 **ab60847** 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	**ab204875** (PKC epsilon peptide) can be utilized as a substrate for assessing kinase activity

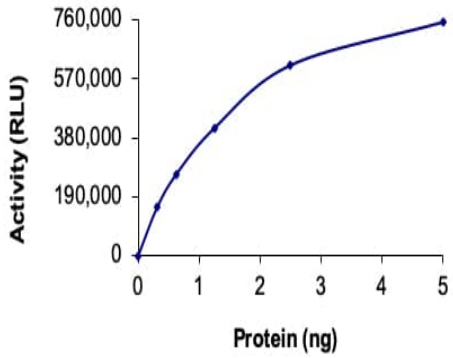
Preparation and Storage

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, 1.74% PMSF, 0.00385% DTT, 0.79% Tris HCl, 0.00292% EDTA, 25% Glycerol (glycerin, glycerine), 0.87% Sodium chloride This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

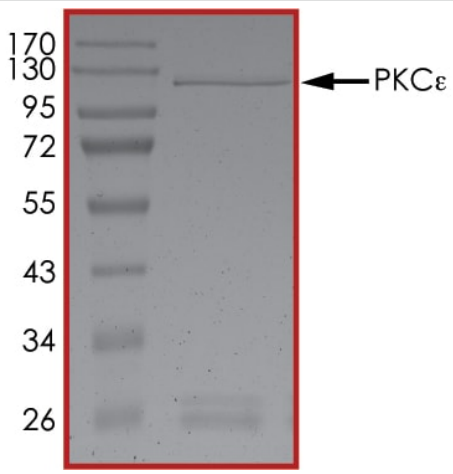
Function	This is calcium-independent, phospholipid-dependent, serine- and threonine-specific enzyme. PKC is activated by diacylglycerol which in turn phosphorylates a range of cellular proteins. PKC also serves as the receptor for phorbol esters, a class of tumor promoters.
Sequence similarities	Belongs 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 and the C2 domain is a non-calcium binding domain.
Post-translational modifications	Phosphorylation on Thr-566 by PDPK1 triggers autophosphorylation on Ser-729.

Images



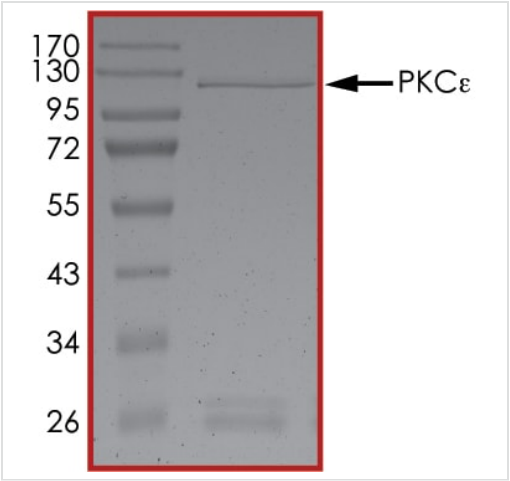
Functional Studies - Recombinant human PKC epsilon protein (ab60847)

The specific activity of PKC epsilon (ab60847) was determined to be 1122 nmol/min/mg as per activity assay protocol and was equivalent to 1398 nmol/min/mg as per radiometric assay



SDS-PAGE - Recombinant human PKC epsilon protein (ab60847)

SDS PAGE analysis of ab60847



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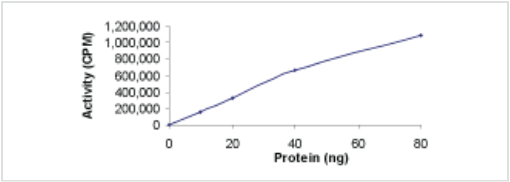
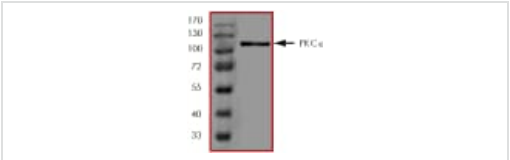


Functional Studies - Recombinant human PKC epsilon protein (ab60847)

Sample Kinase Activity Plot.



SDS-PAGE - Recombinant human PKC epsilon protein (ab60847)

ab60847 on SDS-PAGE, MW ~110 kDa.

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

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