abcam

Product datasheet

Recombinant X. laevis PKC alpha protein ab60839

5 Images

Description

Product name	Recombinant X. laevis PKC alpha protein
Purity	> 80 % Densitometry. Affinity purified.
Expression system	Baculovirus infected Sf9 cells
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Xenopus laevis
Description	Recombinant *X. laevis* PKC alpha protein

Specifications

Our **Abpromise guarantee** covers the use of **ab60839** 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
Form	Liquid
Additional notes	**ab204856** (CREB peptide) can be utilized as a substrate for assessing kinase activity

Preparation and Storage

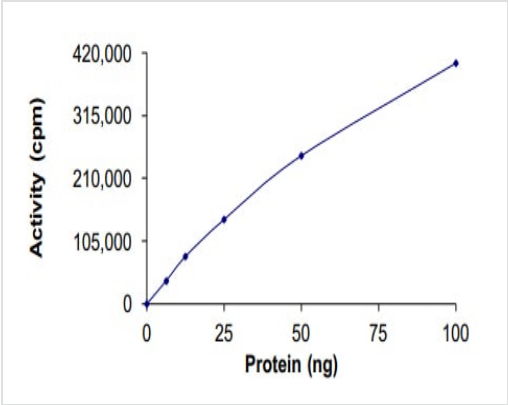
Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 7.50 Constituents: 0.0038% EGTA, 0.00174% PMSF, 0.00385% DTT, 0.79% Tris HCl, 0.00292% EDTA, 25% Glycerol (glycerin, glycerine), 0.87% Sodium chloride This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

Function	This is a calcium-activated, phospholipid-dependent, serine- and threonine-specific enzyme. May

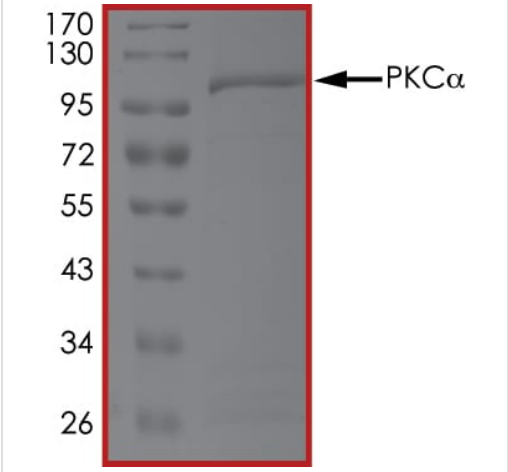
	play a role in cell motility by phosphorylating CSPG4. PKC is activated by diacylglycerol which in turn phosphorylates a range of cellular proteins. PKC also serves as the receptor for phorbol esters, a class of tumor promoters.
Sequence similarities	Belongs to the protein kinase superfamily. AGC Ser/Thr 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.
Cellular localization	Cytoplasm. Cell membrane. Nucleus.

Images



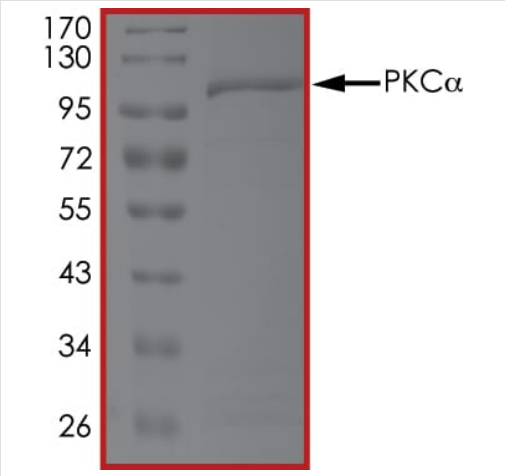
Functional Studies - Recombinant *X. laevis* PKC alpha protein (ab60839)

The specific activity of PKC alpha (ab60839) was determined to be 250 nmol/min/mg as per activity assay protocol



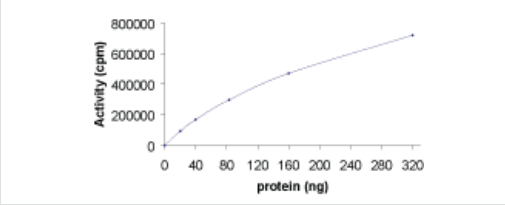
SDS-PAGE - Recombinant *X. laevis* PKC alpha protein (ab60839)

SDS PAGE analysis of ab60839



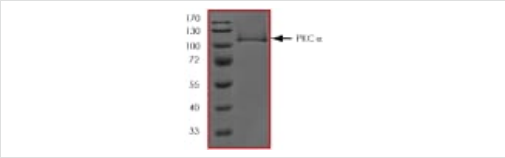
SDS PAGE analysis of ab60839

SDS-PAGE - Recombinant *X. laevis* PKC alpha protein (ab60839)



Sample Kinase Activity Plot.

Functional Studies - Recombinant *X. laevis* PKC alpha protein (ab60839)



ab60839 on SDS-PAGE, MW ~103 kDa.

SDS-PAGE - Recombinant *X. laevis* PKC alpha protein (ab60839)

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