

Recombinant human PKC eta protein ab60849

[1 References](#) [5 Images](#)

Description

| | |
|--------------------------|--|
| Product name | Recombinant human PKC eta 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 **ab60849** 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 | ab204875 (PKC epsilon peptide) can be utilized as a substrate for assessing kinase activity |

Preparation and Storage

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| Stability and Storage | Shipped on dry ice. Upon delivery aliquot and store at -80°C. 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 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.

Tissue specificity

Most abundant in lung, less in heart and skin.

Involvement in disease

Defects in PRKCH may be a cause of susceptibility to ischemic stroke (ISCHSTR) [MIM:601367]; also known as cerebrovascular accident or cerebral infarction. A stroke is an acute neurologic event leading to death of neural tissue of the brain and resulting in loss of motor, sensory and/or cognitive function. Ischemic strokes, resulting from vascular occlusion, is considered to be a highly complex disease consisting of a group of heterogeneous disorders with multiple genetic and environmental risk factors.

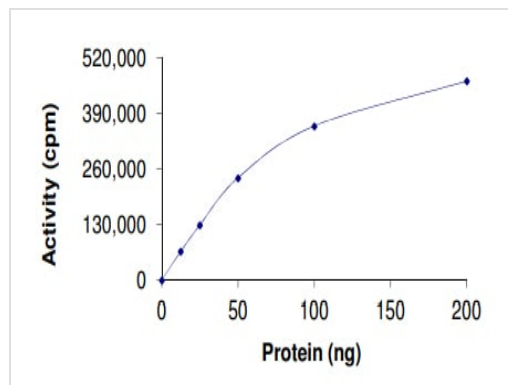
Sequence similarities

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

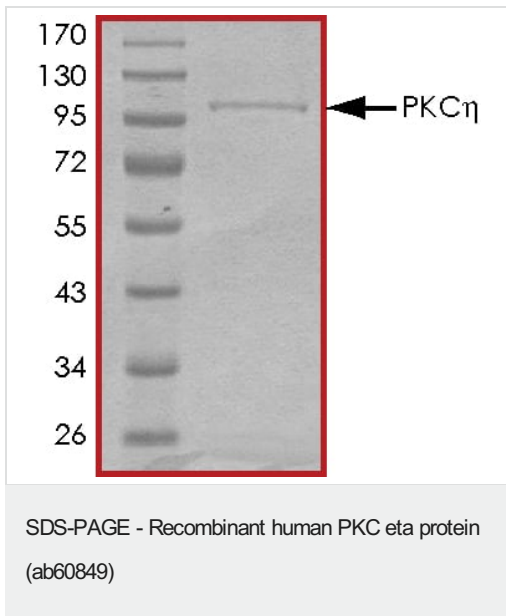
The C1 domain, containing the phorbol ester/DAG-type region 1 (C1A) and 2 (C1B), is the diacylglycerol sensor and the C2 domain is a non-calcium binding domain.

Images

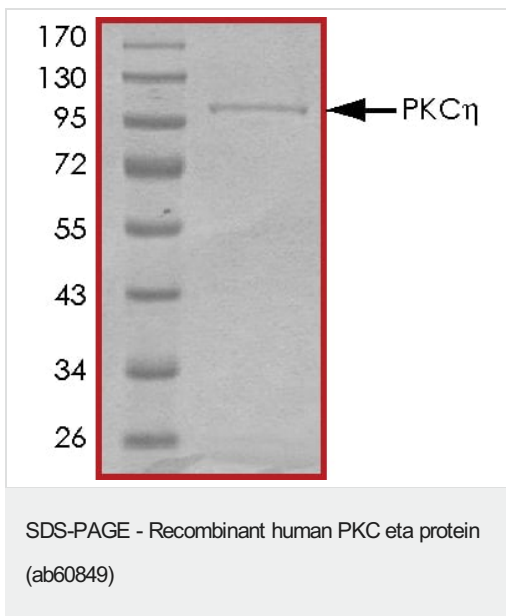


The specific activity of PKC eta (ab60849) was determined to be 99 nmol/min/mg as per activity assay protocol

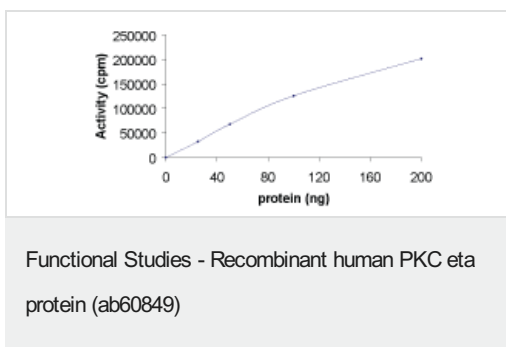
Functional Studies - Recombinant human PKC eta protein (ab60849)



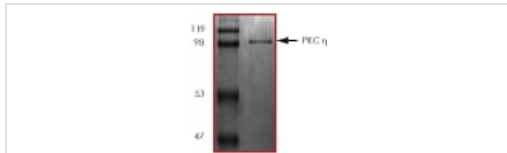
SDS PAGE analysis of ab60849



SDS PAGE analysis of ab60849



Sample Kinase Activity Plot.



ab60849 on SDS-PAGE, MW ~103 kDa.

SDS-PAGE - Recombinant human PKC eta protein
(ab60849)

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