abcam

Product datasheet

Recombinant human PKC zeta protein ab60848

6 Images

Description	
Product name	Recombinant human PKC zeta protein
Purity	> 90 % SDS-PAGE. Purity: >90% as determined by 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 ab60848 in the following tested applications.

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

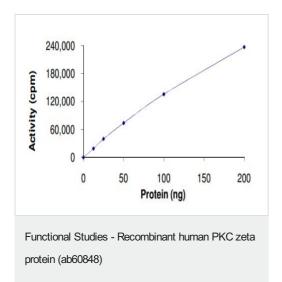
Applications	Functional Studies
	SDS-PAGE
	Western blot
Form	Liquid
Additional notes	ab204856 (CREB peptide) can be utilized as a substrate for assessing kinase activity
Preparation and Storage	
Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.
	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.

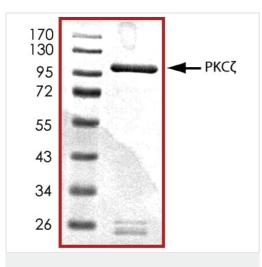
General Info

Function	This is a calcium-independent, phospholipid-dependent, serine- and threonine-specific enzyme. Phosphorylates 'Ser-311' of RELA subunit of NF-kappa-B. 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. Subunit of a quaternary complex that plays a central role in epithelial cell polarization.
Tissue specificity	Expressed in brain, and to a lesser extent in lung, kidney and testis.
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 OPR domain. Contains 1 phorbol-ester/DAG-type zinc finger. Contains 1 protein kinase domain.
Domain	The OPR domain mediates mutually exclusive interactions with SQSTM1 and PARD6B. The C1 domain does not bind the diacylglycerol (DAG).
Post-translational modifications	CDH5 is required for its phosphorylation at Thr-410.
Cellular localization	Cytoplasm. Endosome. Cell junction. In the retina, localizes in the terminals of the rod bipolar cells (By similarity). Associates with endosomes. Presence of KRIT1, CDH5 and RAP1B is required for its localization to the cell junction.

Images

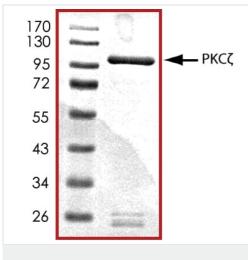


The specific activity of PKC zeta (ab60848) was determined to be 103 nmol/min/mg as per activity assay protocol



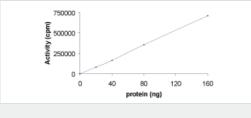
SDS PAGE analysis of ab60848

SDS-PAGE - Recombinant human PKC zeta protein (ab60848)



SDS-PAGE - Recombinant human PKC zeta protein (ab60848)

SDS PAGE analysis of ab60848



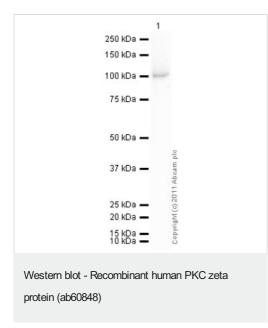
Sample Kinase Activity Plot.

ab60848 on SDS-PAGE, MW ~93 kDa.

Functional Studies - Recombinant human PKC zeta protein (ab60848)



SDS-PAGE - Recombinant human PKC zeta protein (ab60848)



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

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