abcam

Product datasheet

Anti-PKC theta/PRKCQ (phospho S676) antibody ab47774

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Overview

Product name Anti-PKC theta/PRKCQ (phospho S676) antibody

Description Rabbit polyclonal to PKC theta/PRKCQ (phospho S676)

Host species Rabbit

Tested applications
Suitable for: WB, IHC-P
Species reactivity
Reacts with: Human

Immunogen Synthetic peptide corresponding to Human PKC theta/PRKCQ aa 600-700 (C terminal) (phospho

S676).

Database link: Q04759

Positive control IHC-P: Human breast carcinoma. WB: JK cell extract treated with 200nM PMA for 30mins.

General notes

The Life Science industry has been in the grips of a reproducibility crisis for a number of years.

Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets

your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be

found below, along with publications, customer reviews and Q&As

Properties

Form Liquid

Storage instructions Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.

Storage buffer pH: 7.40

Preservative: 0.02% Sodium azide

Constituents: PBS, 50% Glycerol (glycerin, glycerine), 0.87% Sodium chloride

Purity Immunogen affinity purified

Purification notesThe antibody was affinity purified from rabbit antiserum by affinity chromatography using epitope

specific phosphopeptide. The antibody against non phosphopeptide was removed by chromatography using non phosphopeptide corresponding to the phosphorylation site.

Clonality Polyclonal

1

Isotype IgG

Applications

The Abpromise guarantee

Our <u>Abpromise guarantee</u> covers the use of ab47774 in the following tested applications.

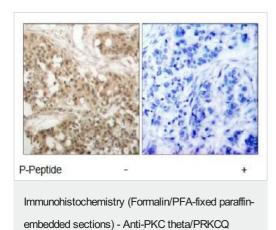
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	*****(1)	1/500 - 1/1000. Detects a band of approximately 82 kDa (predicted molecular weight: 82 kDa).
IHC-P		Use at an assay dependent concentration.

Target

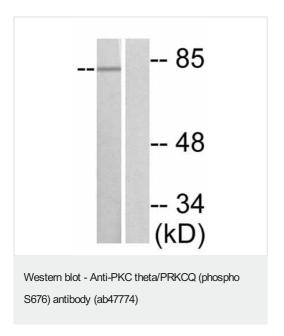
Function	This is a calcium-independent, phospholipid-dependent, serine- and threonine-specific enzyme. Essential for T-cell receptor (TCR)-mediated T-cell activation, but is dispensable during TCR-dependent thymocyte development. Links the TCR signaling complex to the activation of NF-kappa-B in mature T lymphocytes. Required for interleukin-2 (IL2) production. 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	Skeletal muscle, megakaryoblastic cells and platelets.	
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	Autophosphorylation at Thr-219 is required for targeting to the TCR and cellular function of PKC upon antigen receptor ligation.	

Images



(phospho S676) antibody (ab47774)

This image shows human breast carcinoma stained with ab47774 at 1/50 dilution. Right hand image shows tissue treated with the immunogenic phosphopeptide, whereas the left hand image is untreated.



All lanes : Anti-PKC theta/PRKCQ (phospho S676) antibody (ab47774) at 1/500 dilution

Lane 1 : JK cell extract treated with 200nM PMA for 30mins. No peptide.

Lane 2: JK cell extract, untreated. No peptide.

Predicted band size: 82 kDa

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

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