

Product datasheet

Anti-PKC theta/PRKCQ antibody - C-terminal ab227155

[3 Images](#)

Overview

Product name	Anti-PKC theta/PRKCQ antibody - C-terminal
Description	Rabbit polyclonal to PKC theta/PRKCQ - C-terminal
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Rat, Human Predicted to work with: Cow, Rhesus monkey 
Immunogen	Recombinant fragment within Human PKC theta/PRKCQ (C terminal). The exact sequence is proprietary. Database link: Q04759
Positive control	WB: HeLa and HepG2 whole cell extracts. IHC-P: Rat spleen and lymph node tissue.
General notes	This product was previously labelled as PKC theta

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.025% Proclin Constituents: PBS, 1% BSA, 20% Glycerol
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab227155** 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		1/500 - 1/3000. Predicted molecular weight: 82 kDa.
IHC-P		1/100 - 1/1000.

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.

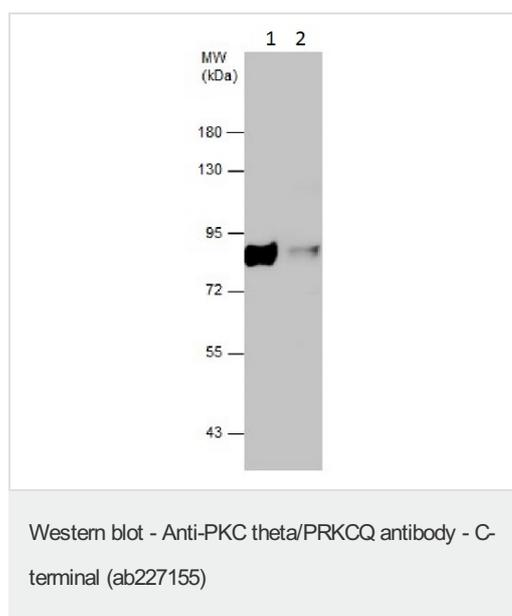
Domain

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



All lanes : Anti-PKC theta/PRKCQ antibody - C-terminal (ab227155) at 1/1000 dilution

Lane 1 : HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell extract

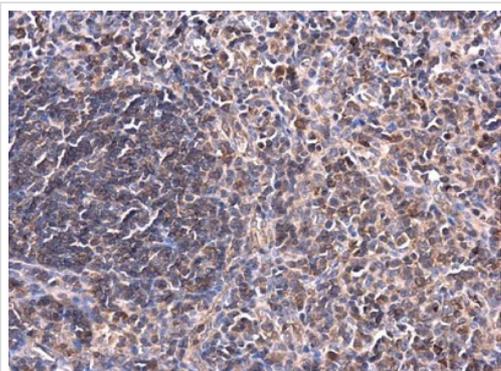
Lane 2 : HepG2 (human liver hepatocellular carcinoma cell line) whole cell extract

Lysates/proteins at 30 µg per lane.

Developed using the ECL technique.

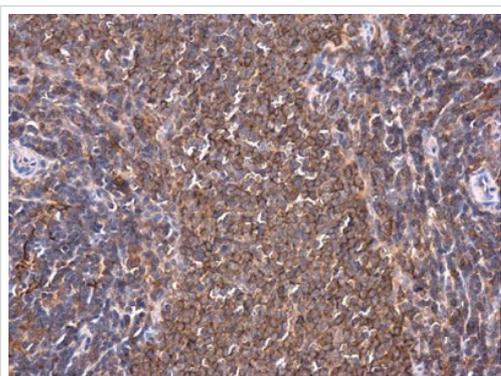
Predicted band size: 82 kDa

7.5% SDS-PAGE



Paraffin embedded rat lymph node tissue stained for PKC theta/PRKCQ with ab227155 (1/500 dilution) in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PKC theta/PRKCQ antibody - C-terminal (ab227155)



Paraffin embedded rat spleen tissue stained for PKC theta/PRKCQ with ab227155 (1/500 dilution) in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PKC theta/PRKCQ antibody - C-terminal (ab227155)

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

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