

# Anti-PKC theta/PRKCQ antibody [M217] ab76197

[1 References](#) [2 Images](#)

### Overview

<b>Product name</b>	Anti-PKC theta/PRKCQ antibody [M217]
<b>Description</b>	Mouse monoclonal [M217] to PKC theta/PRKCQ
<b>Host species</b>	Mouse
<b>Specificity</b>	ab76197 is not predicted to react with other PKC family members due to low sequence homology.
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Rat, Human
<b>Immunogen</b>	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: Jurkat whole cell lysate ( <a href="#">ab7899</a> ). ICC/IF: PC-12 cells.
<b>General notes</b>	<p>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.</p> <p>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&amp;As</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
<b>Storage buffer</b>	Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 50% Glycerol, PBS
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	M217
<b>Isotype</b>	IgG2a

### Applications

## The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab76197 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
ICC/IF		1/100.
WB		1/1000. Predicted molecular weight: 82 kDa.

## 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.

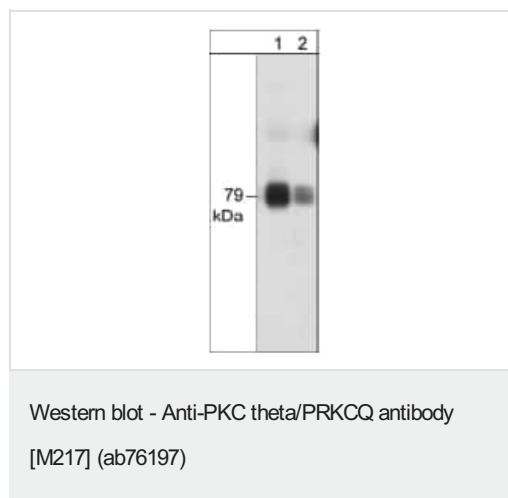
### Domain

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



**Lane 1 :** Anti-PKC theta/PRKCQ antibody [M217] (ab76197) at 1/250 dilution

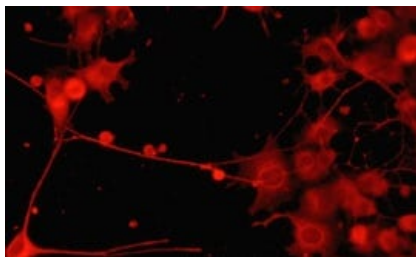
**Lane 2 :** Anti-PKC theta/PRKCQ antibody [M217] (ab76197) at 1/1000 dilution

**Lane 1 :** Jurkat cell lysate.

**Lane 2 :** Jurkat cell lysate

**Predicted band size:** 82 kDa

**Observed band size:** 79 kDa



NGF-differentiated PC-12 cells (rat adrenal gland pheochromocytoma cell line) stained for PKC theta/PRKCQ using ab76197 at 1/100 dilution in ICC/IF. Secondary antibody is a Cy3 conjugate.

Immunocytochemistry/ Immunofluorescence - Anti-PKC theta/PRKCQ antibody [M217] (ab76197)

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

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