

Anti-PKC theta/PRKCQ antibody [EPR1488Y] ab52494

Recombinant RabMAb

4 Images

Overview

Product name	Anti-PKC theta/PRKCQ antibody [EPR1488Y]
Description	Rabbit monoclonal [EPR1488Y] to PKC theta/PRKCQ
Host species	Rabbit
Specificity	This antibody was tested with PKC alpha, beta, gamma, delta, zeta, eta, iota recombinant proteins and was found to react with alpha, beta, gamma, delta, eta proteins.
Tested applications	Suitable for: WB Unsuitable for: ICC/IF or IHC-P
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide within Human PKC theta/PRKCQ. The exact sequence is proprietary.
Positive control	WB: Rat brain lysate, Rat spleen lysate, Mouse C2C12 cell lysate; Jurkat cell lysate.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

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. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal

Clone number EPR1488Y
Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab52494 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. Detects a band of approximately 85 kDa (predicted molecular weight: 85 kDa).

Application notes Is unsuitable for ICC/IF or IHC-P.

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.

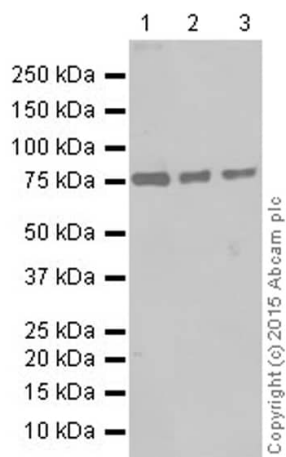
Tissue specificity Skeletal muscle, megakaryoblastic cells and platelets.

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



Western blot - Anti-PKC theta/PRKCQ antibody [EPR1488Y] (ab52494)

All lanes : Anti-PKC theta/PRKCQ antibody [EPR1488Y] (ab52494) at 1/1000 dilution (purified)

Lane 1 : Rat brain tissue lysate

Lane 2 : Rat spleen tissue lysate

Lane 3 : C2C12 whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

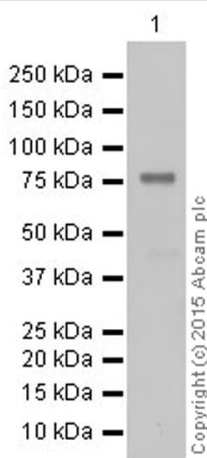
All lanes : Anti-rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/20000 dilution

Predicted band size: 85 kDa

Observed band size: 78 kDa

Blocking buffer: 5% NFDm/TBST

Dilution buffer: 5% NFDm/TBST



Western blot - Anti-PKC theta/PRKCQ antibody [EPR1488Y] (ab52494)

Anti-PKC theta/PRKCQ antibody [EPR1488Y] (ab52494) at 1/1000 dilution (purified) + Jurkat whole cell lysate at 10 µg

Secondary

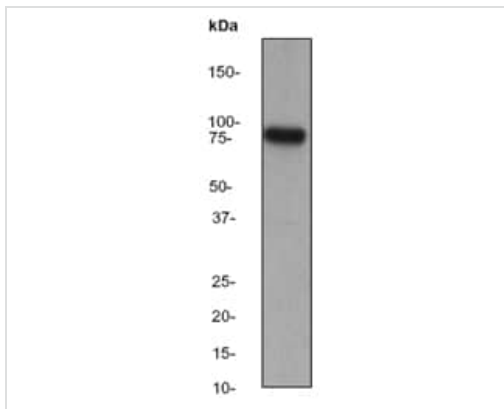
Anti-rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/20000 dilution

Predicted band size: 85 kDa

Observed band size: 78 kDa

Blocking buffer: 5% NFDm/TBST

Dilution buffer: 5% NFDm/TBST



Western blot - Anti-PKC theta/PRKCQ antibody [EPR1488Y] (ab52494)

Anti-PKC theta/PRKCQ antibody [EPR1488Y] (ab52494) at 1/500 dilution (unpurified) + Jurkat cell lysate at 10 µg





Secondary

HRP labeled goat anti-rabbit at 1/2000 dilution

Predicted band size: 85 kDa

Observed band size: 85 kDa

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

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

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