

Rabbit anti-Human PKC theta/PRKCQ Polyclonal Antibody | anti-PRKCQ antibody

Anti-PKC theta/PRKCQ Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125602	Rabbit	Human	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

PKC theta/PRKCQ; Polyclonal Antibody; Anti-PKC theta/PRKCQ Antibody; PRKCQ; PRKCT; Protein kinase C theta type; EC 2. 7. 11. 13; nPKC-theta; protein kinase C theta; anti-PRKCQ antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for PKC theta/PRKCQ detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-PRKCQ antibody	ELISA (Direct ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived human PKC theta/PRKCQ recombinant protein (Position: E23-S706).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



IHC (Immunohistochemistry)

Figure 2. IHC analysis of PKC Theta/PRKCQ using anti-PKC Theta/PRKCQ antibody (AAA125602). PKC Theta/PRKCQ was detected in paraffin-embedded section of human mammary cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2µg/ml rabbit anti-PKC Theta/PRKCQ Antibody (AAA125602) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of PKC Theta/PRKCQ using anti-PKC Theta/PRKCQ antibody (AAA125602). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human K562 whole cell lysates Lane 2: human blood lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-PKC Theta/PRKCQ antigen affinity purified polyclonal antibody (Catalog # AAA125602) at 0.5 µg/mL overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for PKC Theta/PRKCQ at approximately 78KD. The expected band size for PKC Theta/PRKCQ is at 78KD.

ADDITIONAL INFORMATION

Related Product Information for anti-PRKCQ antibody	Protein kinase C theta (PKC-theta) is an enzyme that in humans is encoded by the PRKCQ gene. Protein kinase C (PKC) is a family of serine- and threonine-specific protein kinases that can be activated by calcium and the second messenger diacylglycerol. PKC family members phosphorylate a wide variety of protein targets and are known to be involved in diverse cellular signaling pathways. PKC family members also serve as major receptors for phorbol esters, a class of tumor promoters. Each member of the PKC family has a specific expression profile and is believed to play a distinct role. The protein encoded by this gene is one of the PKC family members. It is a calcium-independent and phospholipid-dependent protein kinase. This kinase is important for T-cell activation. It is required for the activation of the transcription factors NF-kappaB and AP-1, and may link the T cell receptor (TCR) signaling complex to the activation of the transcription factors.
References	1. Baier, G., Telford, D., Giampa, L., Coggeshall, K. M., Baier-Bitterlich, G., Isakov, N., Altman, A. Molecular cloning and characterization of PKC-theta, a novel member of the protein (PKC) gene family expressed predominantly in hematopoietic cells. J. Biol. Chem. 268: 4997-5004, 1993. 2. Belguise, K., Sonenshein, G. E. PKC-theta promotes c-Rel-driven mammary tumorigenesis in mice and humans by repressing estrogen receptor-alpha synthesis. J. Clin. Invest. 117: 4009-4021, 2007. 3. Blanco, G., Brown, S. D. M. Genetic mapping of protein kinase C theta (Pkcq) to mouse chromosome 2. Mammalian Genome 8: 70-71, 1997.

NCBI AND UNIPROT INFORMATION

NCBI GI #	334848126
NCBI GeneID	5588
NCBI Accession #	NP_001229342.1
NCBI GenBank Nucleotide #	NM_001242413.1
UniProt Accession #	Q04759; Q14DH6; Q3MJF1; Q64FY5; Q9H508; Q9H549
Molecular Weight	81,865 Da
NCBI Official Full Name	protein kinase C theta type isoform 2
NCBI Official Synonym Full Names	protein kinase C, theta
NCBI Official Symbol	PRKCQ
NCBI Official Synonym Symbols	PRKCT; nPKC-theta
NCBI Protein Information	protein kinase C theta type
UniProt Protein Name	Protein kinase C theta type
UniProt Gene Name	PRKCQ
UniProt Synonym Gene Names	PRKCT
UniProt Entry Name	KPCT_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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