PKC Theta (PRKCQ) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PKC theta (PRKCQ), Polyclonal Antibody
Full Product Name	PKC theta Rabbit pAb
Product Gene Name	anti-PRKCQ antibody
Product Synonym Names	nPKC theta; nPKCtheta; PKC0; Prkcq; PRKCT
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	In phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% Sodium Azide and 50% Glycerol.
Purity/Purification	Affinity Chromatography
Preparation and Storage	Store at 4 degree C short term. Store at -20 degree C long term. Avoid freeze/thaw cycle.
Molecular Weight	82kDa
OMIM	600448
3D Structure	ModBase 3D Structure for Q04759
Immunogen	A synthesized peptide derived from human PKC theta
Cellular Localization	Cell Membrane, Cytoplasm, Membrane
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PRKCQ antibody	Western Blot (WB)
Application Notes for anti-PRKCQ antibody	WB: 1:500-1:2000
Related Product Information for anti-PRKCQ antibody	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.
Other Notes	Small volumes of anti-PRKCQ antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PRKCQ purchase	MBS8543692 is an antibody targeting PRKCQ. Also known as PKC theta Rabbit pAb. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PRKCQ. It may not necessarily be applicable to this product.

NCBI GI #	334848126
NCBI GeneID	5588
NCBI Accession #	NP_001229342.1

UniProt Primary Accession #	Q04759
UniProt Related Accession #	Q04759
GenBank Nucleotide #	NP_001229342.1
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
UniProt Protein Name	Protein kinase C theta type
UniProt Synonym Protein Names	nPKC-theta
Protein Family	Protein kinase
UniProt Gene Name	PRKCQ
UniProt Synonym Gene Names	PRKCT
UniProt Entry Name	KPCT_HUMAN
NCBI Protein Information	protein kinase C theta type
NCBI Summary for PRKCQ	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. [provided by RefSeq, Jul 2008]
UniProt Comments for PRKCQ	PKCT: an AGC kinase of the PKC family. A novel PKC: Ca2+ independent but still regulated by PS, DAG and phorbol esters. Contains 2 zinc-dependent phorbol-ester and DAG binding domains. Expressed in skeletal muscle and hematopoietic cells. May play a role in T cell receptor signaling and insulin resistance. Required for TCR-induced NF-kappaB activation in mature T lymphocytes. Protein type: Kinase, protein; EC 2.7.11.13; Protein kinase, Ser/Thr (non-receptor); Protein kinase, AGC; AGC group; PKC family; Delta subfamily Chromosomal Location of Human Ortholog: 10p15 Cellular Component: plasma membrane; immunological synapse; cytosol Molecular Function: protein serine/threonine kinase activity; protein binding; protein kinase C activity; metal ion binding; ubiquitin-protein ligase activity; ATP binding Biological Process: positive regulation of interleukin-17 production; axon guidance; phototransduction, visible light; platelet activation; apoptosis; positive regulation of interleukin-2 biosynthetic process; membrane protein ectodomain proteolysis; negative regulation of insulin receptor signaling pathway; protein ubiquitination; protein amino acid phosphorylation; T cell receptor signaling pathway; activation of NF-kappaB transcription factor; rhodopsin mediated signaling; positive regulation of interleukin-4 production; regulation of rhodopsin mediated signaling; regulation of transcription, DNA-dependent; innate immune response; positive regulation of T cell proliferation; regulation of cell growth; positive regulation of T cell activation; inflammatory response; blood coagulation; cell structure disassembly during apoptosis
Research Articles on PRKCQ	**1.** The Pro(168) residue in the C1a domain of full length PKCtheta; plays a critical role in the ligand and membrane binding, while exchanging the residue (Lys(240)) at the same position in C1b domain of full length PKCtheta; only modestly reduced the membrane interaction.

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