PKC Theta (PRKCT) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PKC theta (PRKCT), Polyclonal Antibody
Full Product Name	PKC theta, CT (Protein Kinase C theta Type, nPKC-theta, PRKCQ, PRKCT) (MaxLight 405)
Product Gene Name	anti-PRKCT antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human PKC theta.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	81,865 Da
Chromosome Location	Chromosome: 10; NC_000010.10 (6469105..6622254, complement). Location: 10p15
OMIM	600448
3D Structure	ModBase 3D Structure for Q04759
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 318-348 in the C-terminal region of human PKC theta, UniProt Accession #Q04759.
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-PRKCT antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-PRKCT antibody	Immunohistochemistry (IHC), Western Blot (WB), FLISA
Application Notes for anti-PRKCT antibody	IHC: 1:50-1:100 WB: 1:1000 Applications are based on unconjugated antibody.
Related Product Information for anti-PRKCT antibody	MBS6495229 is an antibody targeting PRKCT. Also known as PKC theta, CT (Protein Kinase C theta Type, nPKC-theta, PRKCQ, PRKCT) (MaxLight 405). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-PRKCT antibody	1. Carrasco, S., et al., Mol. Biol. Cell 15(6):2932-2942 (2004). 2. Sun, L., et al., Blood 103(3):948-954 (2004). 3. Burchfield, J.G., et al., J. Biol. Chem. 279(18):18623-18632 (2004). 4. Ishaq, M., et al., J. Biol. Chem. 278(41):39296-39302 (2003). 5. Cipriani, B., et al., J. Immunol. 169(10):5761-5770 (2002).
Other Notes	Small volumes of anti-PRKCT 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PRKCT. 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 Secondary Accession #	Q14DH6; Q3MJF1; Q64FY5; Q9H508; Q9H549
UniProt Related Accession #	Q04759
GenBank Nucleotide #	NM_001242413.1
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
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 PRKCT	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 PRKCT	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 PRKCT	**1.** Protein kinase C-theta (PKCtheta;) phosphorylates and inhibits the guanine exchange factor, GIV/Girdin.
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