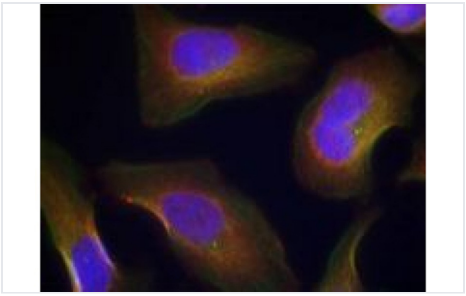
PKC theta Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PKC theta, Polyclonal Antibody
Full Product Name	Rabbit polyclonal PKC theta antibody
Product Gene Name	anti-PKC theta antibody
Product Synonym Names	PKC theta antibody
Clonality	Polyclonal
Host	Rabbit
Form/Format	Supplied in liquid form in PBS buffer (no MG2+ or Ca2+), pH 7.4, 150 mm NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Purified by immunoaffinity chromatography.
Concentration	1 mg/ml (lot specific)
Preparation and Storage	Store at 4 degree C for short term storage. Aliquot and store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.
Molecular Weight	67,560 Da
OMIM	L01087 mRNA
3D Structure	ModBase 3D Structure for Q04759
Immunogen	PKC theta antibody was raised in Rabbit using the peptide sequence around phosphorylation site of serine 676 (R-L-S(p)-F-A) derived from Human PKCT as the immunogen.
Cross-Reactivity	Human, Mouse, Rat
Product Categories/Family for anti-PKC theta antibody	Proteases; Inhibitors; & Enzymes
Applications Tested/Suitable for anti-PKC theta antibody	Immunofluorescence (IF), Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-PKC theta antibody	IF: 1:100-1:200 IHC: 1:50-1:100 WB: 1:500-1:1000
Related Product Information for anti-PKC theta antibody	MBS5304961 is an antibody targeting PKC theta. Also known as Rabbit polyclonal PKC theta antibody. Host: Rabbit.
Other Notes	Small volumes of anti-PKC theta 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.



Immunofluorescence (IF) of anti-PKC theta antibody
Immunofluorescence staining of methanol-fixed Hela cells using PKCtheta (Phospho-Ser676) antibody

ADDITIONAL DETAILS

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

NCBI GI #	1020158999
NCBI GeneID	5588
NCBI Accession #	NP_001310194.1
UniProt Primary Accession #	Q04759
UniProt Secondary Accession #	Q14DH6; Q3MJF1; Q64FY5; Q9H508; Q9H549; B4DF52
UniProt Related Accession #	Q04759
GenBank Nucleotide #	NM_001323265.1
NCBI Official Full Name	protein kinase C theta type isoform 1
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
NCBI Protein Information	protein kinase C theta type
NCBI Summary for PKC theta	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 PKC theta	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: AGC group; Delta subfamily; EC 2.7.11.13; Kinase, protein; PKC family; Protein kinase, AGC; Protein kinase, Ser/Thr (non-receptor) Chromosomal Location of Human Ortholog: 10p15.1 Cellular Component: cytosol; intracellular; plasma membrane Molecular Function: protein binding; protein kinase activity; protein serine/threonine kinase activity Biological Process: activation of NF-kappaB transcription factor; axon guidance; cell structure disassembly during apoptosis; membrane protein ectodomain proteolysis; negative regulation of insulin receptor signaling pathway; peptidyl-serine phosphorylation; platelet activation; positive regulation of interleukin-17 production; positive regulation of interleukin-4 production; positive regulation of T cell activation; positive regulation of telomerase activity; positive regulation of telomere maintenance via telomerase; regulation of transcription, DNA-dependent; T cell receptor signaling pathway
Research Articles on PKC theta	**1.** Data show that tonantzitlolone (TZL) was able to induce protein kinase c theta (PKCtheta;)-dependent heat shock transcription factor 1 (HSF1)phosphorylation.
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