PKC Beta (PKCB) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PKC beta (PKCB), Polyclonal Antibody
Full Product Name	PKC beta
Product Gene Name	anti-PKCB antibody
Product Synonym Gene Name	PKC-B; PRKCB; PKC-beta; PRKCB1
Product Synonym Names	Protein kinase C beta type (EC:2.7.11.13)
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	1*TBS (pH7.4), 0.5% BSA, 50% Glycerol. 0.05% Sodium Azide.
Purity/Purification	Protein Affinity Purified
Preparation and Storage	Store at 4 degree C after thawing. Aliquot store at -20 degree C or -80 degree C. Avoid repeated freeze/thaw cycles.
OMIM	176970
3D Structure	ModBase 3D Structure for P05771
Immunogen	Recombinant Protein
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-PKCB antibody	MBS8565301 is an antibody targeting PKCB. Also known as PKC beta. Reactive in Human, Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-PKCB 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 PKCB. It may not necessarily be applicable to this product.

NCBI GI #	20127450
NCBI GeneID	5579
NCBI Accession #	NP_002729.2
UniProt Primary Accession #	P05771
UniProt Secondary Accession #	P68404
UniProt Related Accession #	P05771
GenBank Nucleotide #	NP_002729.2
NCBI Official Full Name	protein kinase C beta type isoform 2
NCBI Official Synonym Full Names	protein kinase C beta

NCBI Official Symbol	PRKCB
NCBI Official Synonym Symbols	PKCB; PRKCB1; PRKCB2; PKCI(2); PKCbeta; PKC-beta
UniProt Protein Name	Protein kinase C beta type
Protein Family	Protein kinase
UniProt Gene Name	PRKCB
UniProt Synonym Gene Names	PKCB; PRKCB1; PKC-B; PKC-beta
UniProt Entry Name	KPCB_HUMAN
NCBI Protein Information	protein kinase C beta type
NCBI Summary for PKCB	Protein kinase C (PKC) is a family of serine- and threonine-specific protein kinases that can be activated by calcium and 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 in cells. The protein encoded by this gene is one of the PKC family members. This protein kinase has been reported to be involved in many different cellular functions, such as B cell activation, apoptosis induction, endothelial cell proliferation, and intestinal sugar absorption. Studies in mice also suggest that this kinase may also regulate neuronal functions and correlate fear-induced conflict behavior after stress. Alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008]
UniProt Comments for PKCB	PKCB: an AGC kinase of the PKC family. A classical PKC downstream of many mitogenic receptors. Activates the NF-kappaB signaling pathway in B cells after antigen-receptor signaling. Two splice-variant isoforms have been described. Protein type: EC 2.7.11.13; Motility/polarity/chemotaxis; Protein kinase, Ser/Thr (non-receptor); Kinase, protein; Protein kinase, AGC; AGC group; PKC family; Alpha subfamily Chromosomal Location of Human Ortholog: 16p11.2 Cellular Component: nucleoplasm; membrane; cytoplasm; plasma membrane; cytosol; nucleus Molecular Function: protein serine/threonine kinase activity; protein binding; protein kinase C activity; androgen receptor binding; ligand-dependent nuclear receptor transcription coactivator activity; protein kinase C binding; histone binding; zinc ion binding; calcium channel regulator activity; chromatin binding; ATP binding Biological Process: platelet activation; positive regulation of I-kappaB kinase/NF-kappaB cascade; transcription, DNA-dependent; B cell activation; apoptosis; positive regulation of B cell receptor signaling pathway; mitotic nuclear envelope disassembly; negative regulation of insulin receptor signaling pathway; signal transduction; protein amino acid phosphorylation; positive regulation of vascular endothelial growth factor receptor signaling pathway; activation of NF-kappaB transcription factor; regulation of transcription from RNA polymerase II promoter; cellular calcium ion homeostasis; synaptic transmission; positive regulation of angiogenesis; B cell receptor signaling pathway; lipoprotein transport; calcium ion transport; response to hypoxia; mitotic cell cycle; blood coagulation; vascular endothelial growth factor receptor signaling pathway
Research Articles on PKCB	**1.** expression of PRKCB mRNA might be correlated with the pathogenesis of systemic lupus erythematosus
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