PRKCD Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PRKCD, Polyclonal Antibody
Full Product Name	PRKCD Polyclonal Antibody
Product Gene Name	anti-PRKCD antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	77kDa; 80kDa
OMIM	176977
3D Structure	ModBase 3D Structure for Q05655
Immunogen	Recombinant protein of human PRKCD (NP_997704.1).
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PRKCD antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-PRKCD antibody	WB: 1:500-1:2000 IHC: 1:50-1:100
Related Product Information for anti-PRKCD antibody	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 distinct roles in cells. The protein encoded by this gene is one of the PKC family members. Studies both in human and mice demonstrate that this kinase is involved in B cell signaling and in the regulation of growth, apoptosis, and differentiation of a variety of cell types. Alternatively spliced transcript variants encoding the same protein have been observed.
Other Notes	Small volumes of anti-PRKCD 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 PRKCD purchase	MBS8566161 is an antibody targeting PRKCD. Also known as PRKCD Polyclonal Antibody. Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	31377782
NCBI GeneID	5580

NCBI Accession #	NP_006245.2
UniProt Primary Accession #	Q05655
UniProt Related Accession #	Q05655
GenBank Nucleotide #	NP_006245.2
NCBI Official Full Name	protein kinase C delta type isoform c
NCBI Official Synonym Full Names	protein kinase C delta
NCBI Official Symbol	PRKCD
NCBI Official Synonym Symbols	MAY1; PKCD; ALPS3; CVID9; nPKC-delta
UniProt Protein Name	Protein kinase C delta type
UniProt Synonym Protein Names	Tyrosine-protein kinase PRKCD (EC:2.7.10.2); nPKC-deltaCleaved into the following 2 chains:Protein kinase C delta type regulatory subunit; Protein kinase C delta type catalytic subunitAlternative name(s):Sphingosine-dependent protein kinase-1; SDK1
Protein Family	Protein kinase
UniProt Gene Name	PRKCD
UniProt Synonym Gene Names	SDK1
UniProt Entry Name	KPCD_HUMAN
NCBI Protein Information	protein kinase C delta type
NCBI Summary for PRKCD	The protein encoded by this gene is a member of the protein kinase C family of serine- and threonine-specific protein kinases. The encoded protein is activated by diacylglycerol and is both a tumor suppressor and a positive regulator of cell cycle progression. Also, this protein can positively or negatively regulate apoptosis. Defects in this gene are a cause of autoimmune lymphoproliferative syndrome. [provided by RefSeq, Aug 2017]
UniProt Comments for PRKCD	PKCD: an AGC kinase of the PKC family. A novel PKC: Ca2 independent but still regulated by PS, DAG and phorbol esters. Caspase-3 appears to liberate a sphingosine-activated catalytic fragment that has altered regulatory mechanisms and substrate specificities. Protein type: EC 2.7.11.13; Protein kinase, AGC; Protein kinase, Ser/Thr (non-receptor); Nuclear receptor co-regulator; Tumor suppressor; Kinase, protein; AGC group; PKC family; Delta subfamily Chromosomal Location of Human Ortholog: 3p21.31 Cellular Component: nucleoplasm; nuclear matrix; mitochondrion; endoplasmic reticulum; perinuclear region of cytoplasm; cytoplasm; plasma membrane; intercellular junction; nucleus; cytosol Molecular Function: calcium-independent protein kinase C activity; protein serine/threonine kinase activity; protein binding; enzyme binding; protein kinase C activity; insulin receptor substrate binding; metal ion binding; enzyme activator activity; non-membrane spanning protein tyrosine kinase activity; ATP binding Biological Process: B cell proliferation; negative regulation of MAP kinase activity; peptidyl-tyrosine phosphorylation; interleukin-12 production; nerve growth factor receptor signaling pathway; apoptosis; negative regulation of insulin receptor signaling pathway; signal transduction; protein amino acid phosphorylation; positive regulation of protein amino acid dephosphorylation; negative regulation of filopodium formation; positive regulation of superoxide release; regulation of receptor activity; negative regulation of protein binding; cell structure disassembly during apoptosis; epidermal growth factor receptor signaling pathway; platelet activation; negative regulation of peptidyl-tyrosine phosphorylation; fibroblast growth factor receptor signaling pathway; neutrophil activation; protein stabilization; negative regulation of actin filament polymerization; cytokine and chemokine mediated signaling pathway; peptidyl-threonine phosphorylation; cell cycle; phospholipase C activation; negative regulation of inflammatory response; defense response to bacterium; interleukin-10 production; innate immune response; gene expression; immunoglobulin mediated immune response; vascular endothelial growth factor receptor signaling pathway; blood coagulation; induction of apoptosis by oxidative stress Disease: Autoimmune Lymphoproliferative Syndrome, Type Iii

Research Articles on PRKCD	**1.** the intracellular interaction of IL-32theta;, PKCdelta, and STAT3 to regulate IL-13 and IL-13Ralpha2 synthesis, supporting the role of IL-32theta; as an inflammatory modulator.
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