PKC Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PKC, Polyclonal Antibody
Full Product Name	Phospho-PKC (Pan) (betaII Ser660) Rabbit pAb
Product Gene Name	anti-PKC antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	PBS with 0.02% Sodium Azide, 50% Glycerol, pH 7.3.
Purity/Purification	Affinity Purified
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	95kDa
OMIM	176960
3D Structure	ModBase 3D Structure for P17252
Immunogen	A phospho specific peptide corresponding to residues surrounding Ser660 of human PKC (pan) betaII
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PKC antibody	Western Blot (WB)
Application Notes for anti-PKC antibody	WB: 1:500-1:2000
Related Product Information for anti-PKC antibody	MBS8550632 is an antibody targeting PKC. Also known as Phospho-PKC (Pan) (betaII Ser660) Rabbit pAb. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-PKC 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 PKC. It may not necessarily be applicable to this product.

NCBI GI #	4506067
NCBI GeneID	5578
NCBI Accession #	NP_002728.1
UniProt Primary Accession #	P17252
UniProt Secondary Accession #	P05771; Q05655; Q02156; P24723; Q04759
UniProt Related Accession #	P17252
GenBank Nucleotide #	NP_002728.1

NCBI Official Full Name	protein kinase C alpha type
NCBI Official Synonym Full Names	protein kinase C alpha
NCBI Official Symbol	PRKCA
NCBI Official Synonym Symbols	AAG6; PKCA; PRKACA; PKCI+/-; PKCalpha; PKC-alpha
UniProt Protein Name	Protein kinase C alpha type
Protein Family	Protein phosphatase 1 regulatory
UniProt Gene Name	PRKCA
UniProt Synonym Gene Names	PKCA; PRKACA; PKC-A; PKC-alpha
UniProt Entry Name	KPCA_HUMAN
NCBI Protein Information	protein kinase C alpha type
NCBI Summary for PKC	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 in cells. The protein encoded by this gene is one of the PKC family members. This kinase has been reported to play roles in many different cellular processes, such as cell adhesion, cell transformation, cell cycle checkpoint, and cell volume control. Knockout studies in mice suggest that this kinase may be a fundamental regulator of cardiac contractility and Ca(2+) handling in myocytes. [provided by RefSeq, Jul 2008]
UniProt Comments for PKC	PKCA: an AGC kinase of the PKC family. A classical PKC downstream of many mitogenic and receptors. Classical PKCs are calcium-dependent enzymes that are activated by phosphatidylserine, diacylglycerol and phorbol esters. Contains a pseudo-substrate autoinhibitory domain that binds to the catalytic domain preventing its activation in the absence of cofactors or activators. Protein type: Oncoprotein; Protein kinase, AGC; Kinase, protein; EC 2.7.11.13; Protein kinase, Ser/Thr (non-receptor); AGC group; PKC family; Alpha subfamily Chromosomal Location of Human Ortholog: 17q22-q23.2 Cellular Component: nucleoplasm; photoreceptor outer segment; cell soma; mitochondrion; perinuclear region of cytoplasm; endoplasmic reticulum; apical part of cell; cytoplasm; mitochondrial membrane; dendrite; plasma membrane; cytosol Molecular Function: protein serine/threonine kinase activity; protein binding; enzyme binding; protein kinase C activity; zinc ion binding; calcium-dependent protein kinase C activity; ATP binding; protein kinase activity Biological Process: phototransduction, visible light; extracellular matrix organization and biogenesis; positive regulation of cell adhesion; nerve growth factor receptor signaling pathway; regulation of muscle contraction; positive regulation of lipopolysaccharide-mediated signaling pathway; mitotic nuclear envelope disassembly; negative regulation of insulin receptor signaling pathway; signal transduction; positive regulation of mitotic cell cycle; protein amino acid phosphorylation; induction of positive chemotaxis; negative regulation of cell proliferation; synaptic transmission; chondrocyte differentiation; angiogenesis; positive regulation of macrophage differentiation; cell adhesion; regulation of peptidyl-tyrosine phosphorylation; regulation of the force of heart contraction; inactivation of MAPK activity; epidermal growth factor receptor signaling pathway; neutrophil chemotaxis; platelet activation; fibroblast growth factor receptor signaling pathway; positive regulation of blood vessel endothelial cell migration; adenylate cyclase activation; negative regulation of adenylate cyclase activity; cellular calcium ion homeostasis; rhodopsin mediated signaling; positive regulation of angiogenesis; negative regulation of glucose import; regulation of rhodopsin mediated signaling; phospholipase C activation; energy reserve metabolic process; innate immune response; positive regulation of endothelial cell proliferation; gene expression; mitotic cell cycle; positive regulation of protein amino acid phosphorylation; blood coagulation; vascular endothelial growth factor receptor signaling pathway; regulation of insulin secretion; positive regulation of inflammatory response; positive regulation of cell migration
Research Articles on PKC	**1.** co-activation of FLI1 and PKC could induce differentiation of human embryonic stem cells into induced endothelial cells in a fast, efficient and economic manner.

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