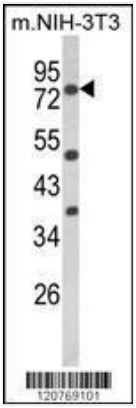
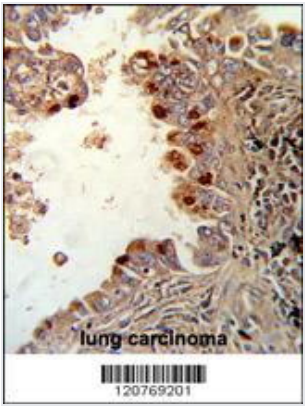
PRKCA Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

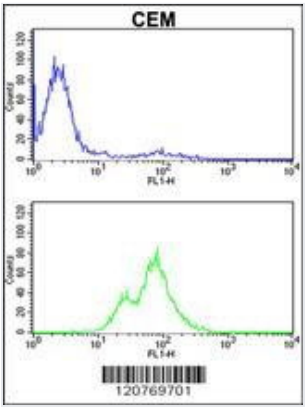
Product Name	PRKCA, Polyclonal Antibody
Full Product Name	PRKCA, NT (Protein Kinase C alpha Type, AAG6, PKC-A, PRKACA, PKCA, PKC-alpha) (APC)
Product Gene Name	anti-PRKCA antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human PRKCA. Species Crossreactivity: mouse.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for at least 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	76,750 Da
OMIM	176960
3D Structure	ModBase 3D Structure for P17252
Immunogen	Synthetic peptide selected from the N-terminal region of human PRKCA (KLH).
Conjugate	APC
Note	Preservative Free
Product Categories/Family for anti-PRKCA antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-PRKCA antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-PRKCA antibody	WB: 1:50-1:100 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-PRKCA antibody	MBS6495115 is an antibody targeting PRKCA. Also known as PRKCA, NT (Protein Kinase C alpha Type, AAG6, PKC-A, PRKACA, PKCA, PKC-alpha) (APC). Reactive in Human, Mouse. Host: Rabbit.
Product References and Citations for anti-PRKCA antibody	1. Gysin, S. and Imber, R. et.al., Eur. J. Biochem. 240(3), 747-750 (1996). 2. Rider, M.H., et.al., Biochem. J. 285(PT 2), 405-411 (1992).
Other Notes	Small volumes of anti-PRKCA 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.



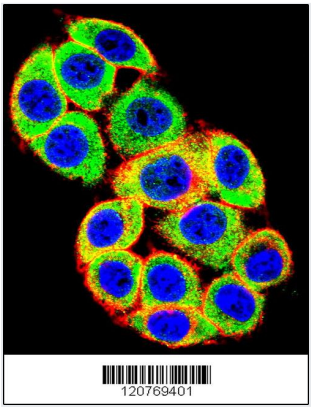
Western Blot (WB) of anti-PRKCA antibody
Western blot analysis of PRKCA Antibody (N-term) in mouse NIH-3T3 cell line lysates (35ug/lane). PRKCA (arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-PRKCA antibody
Formalin-fixed and paraffin-embedded human lung carcinoma reacted with PRKCA Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow Cytometry (FC/FACS) of anti-PRKCA antibody
PRKCA Antibody (N-term) flow cytometric analysis of CEM cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Immunofluorescence (IF) of anti-PRKCA antibody
Confocal immunofluorescent analysis of PRKCA Antibody (N-term) with Hela cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). Actin filaments have been labeled with Alexa Fluor 555 phalloidin (red).DAPI was used to stain the cell nuclear (blue).

ADDITIONAL DETAILS

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

NCBI GI #	4506067
NCBI GeneID	5578
NCBI Accession #	NP_002728
UniProt Primary Accession #	P17252
UniProt Secondary Accession #	Q15137; Q32M72; Q96RE4; B5BU22
UniProt Related Accession #	P17252
GenBank Nucleotide #	NM_002737
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; PKC-alpha
UniProt Protein Name	Protein kinase C alpha type
Protein Family	Protein kinase

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; PKC-A; aging-associated gene 6
UniProt Comments for PRKCA	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
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