

PKC alpha Monoclonal Antibody | anti-PKCalpha antibody

Phospho-PKC alpha (Thr638) Rabbit mAb

CATALOG # AAA314290	HOST Recombinant Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

PKC alpha; Monoclonal Antibody; Phospho-PKC alpha (Thr638) Rabbit mAb; EC 2.7.11.13; KPCA; PKC III; PKC-A; PKC-III; PKC-alpha; PRKACA; PRKCA; Protein kinase C; alpha type; kinase PKC-alpha; anti-PKCalpha antibody

PRODUCT SPECIFICATIONS

Host	Recombinant Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	S09-7C7
Purity/Purification	Affinity Purified
Form/Format	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Concentration	0.3mg/ml (varies by lot)
Applicable Applications for anti-PKCalpha antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic phosphopeptide corresponding to residues surrounding Thr638 of human PKC alpha
Conjugation	Unconjugated
Modification	Phosphorylated
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Immunohistochemistry of Phospho-PKC alpha (Thr638) in paraffin-embedded human colon cancer tissue using Phospho-PKC alpha (Thr638) Rabbit mAb at dilution 1/100



WB (Western Blot)

Western blot detection of Phospho-PKC alpha (Thr638) in K562, C6 cell lysates using Phospho-PKC alpha (Thr638) Rabbit mAb(1:1000 diluted). Predicted band size: 77kDa. Observed band size: 80kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PKCalpha antibody	Calcium-activated, phospholipid- and diacylglycerol (DAG)-dependent serine/threonine-protein kinase that is involved in positive and negative regulation of cell proliferation, apoptosis, differentiation, migration and adhesion, tumorigenesis, cardiac hypertrophy, angiogenesis, platelet function and inflammation, by directly phosphorylating targets such as RAF1, BCL2, CSPG4, TNNT2/CTNT, or activating signaling cascade involving MAPK1/3 (ERK1/2) and RAP1GAP. Involved in cell proliferation and cell growth arrest by positive and negative regulation of the cell cycle. Can promote cell growth by phosphorylating and activating RAF1, which mediates the activation of the MAPK/ERK signaling cascade, and/or by up-regulating CDKN1A, which facilitates active cyclin-dependent kinase (CDK) complex formation in glioma cells. In intestinal cells stimulated by the phorbol ester PMA, can trigger a cell cycle arrest program which is associated with the accumulation of the hyper-phosphorylated growth-suppressive form of RB1 and induction of the CDK inhibitors CDKN1A and CDKN1B. Exhibits anti-apoptotic function in glioma cells and protects them from apoptosis by suppressing the p53/TP53-mediated activation of IGFBP3, and in leukemia cells mediates anti-apoptotic action by phosphorylating BCL2. During macrophage differentiation induced by macrophage colony-stimulating factor (CSF1), is translocated to the nucleus and is associated with macrophage development. After wounding, translocates from focal contacts to lamellipodia and participates in the modulation of desmosomal adhesion. Plays a role in cell motility by phosphorylating CSPG4, which induces association of CSPG4 with extensive lamellipodia at the cell periphery and polarization of the cell accompanied by increases in cell motility. During chemokine-induced CD4+ T cell migration, phosphorylates CDC42-guanine exchange factor DOCK8 resulting in its dissociation from LRCH1 and the activation of GTPase CDC42 (PubMed:28028151).
Product Categories/Family for anti-PKCalpha antibody	Primary Antibody

NCBI AND UNIPROT INFORMATION

NCBI GI #	4506067
NCBI GeneID	5578
NCBI Accession #	NP_002728.1
NCBI GenBank Nucleotide #	NM_002737.2
UniProt Accession #	P17252; Q15137; Q32M72; Q96RE4; B5BU22
Molecular Weight	76,750 Da
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
NCBI Protein Information	protein kinase C alpha type; PKC-A; aging-associated gene 6
UniProt Protein Name	Protein kinase C alpha type
UniProt Gene Name	PRKCA
UniProt Synonym Gene Names	PKCA; PRKACA; PKC-A; PKC-alpha
UniProt Entry Name	KPCA_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.