PKC alpha Rabbit mAb

Catalog No: #48808

Package Size: #48808-1 50ul #48808-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

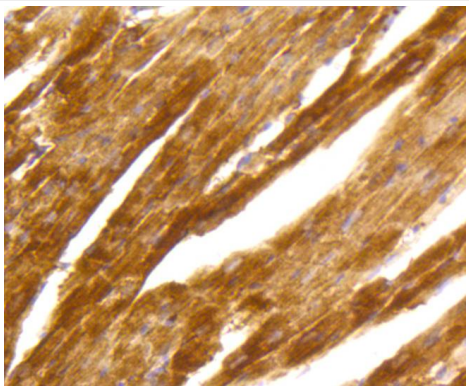
Description

Product Name	PKC alpha Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SU31-08
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, IP, FC
Species Reactivity	Human;Mouse;Rat
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	AAG6 antibody Aging associated gene 6 antibody aPKC antibody KPCA_HUMAN antibody PKC alpha antibody PKC-A antibody PKC-alpha antibody PKCA antibody PRKACA antibody PRKCA antibody Protein Kinase C alpha antibody Protein kinase C alpha type antibody
Accession No.	Swiss-Prot#:P17252
Calculated MW	77 kDa
SDS-PAGE MW	75 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

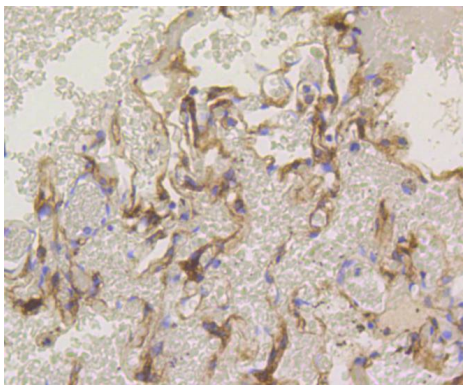
Application Details

WB: 1:1,000-1:2,000 IHC: 1:50-1:200 ICC: 1:50-1:200IPoΩ½oΩ½ 1:10-1:50 FC: 1:50-1:100

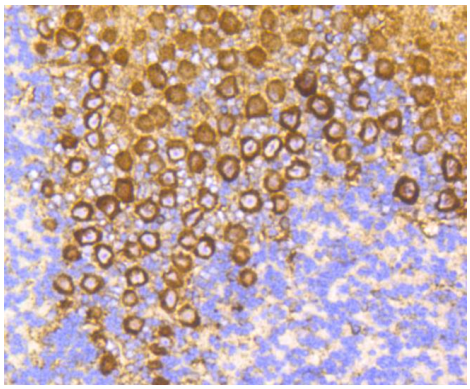
Images



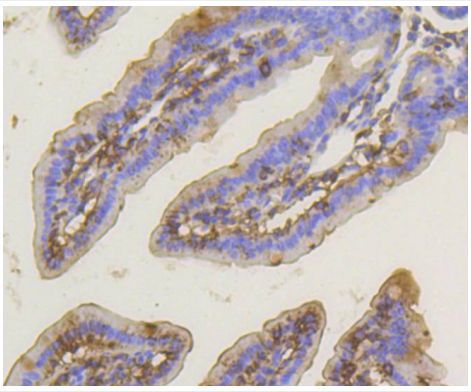
Immunohistochemical analysis of paraffin-embedded mouse heart tissue using anti-PKC alpha antibody. Counter stained with hematoxylin.



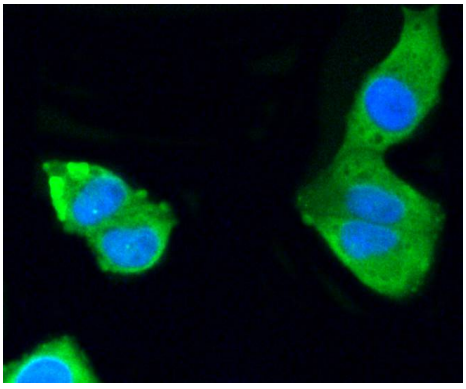
Immunohistochemical analysis of paraffin-embedded human lung tissue using anti-PKC alpha antibody. Counter stained with hematoxylin.



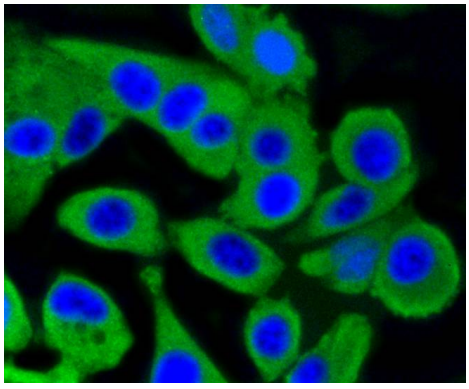
Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-PKC alpha antibody. Counter stained with hematoxylin.



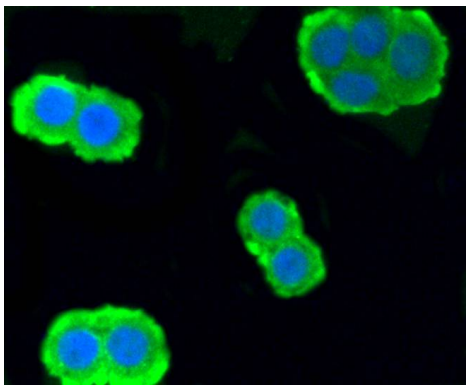
Immunohistochemical analysis of paraffin-embedded mouse small intestine tissue using anti-PKC alpha antibody. Counter stained with hematoxylin.



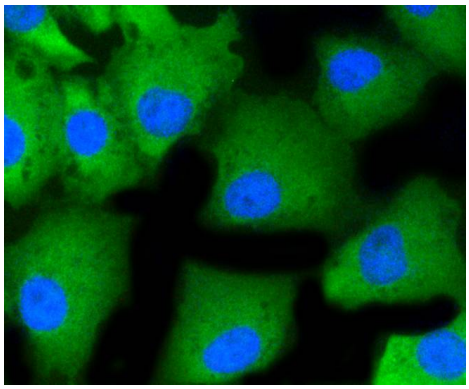
ICC staining PKC alpha in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



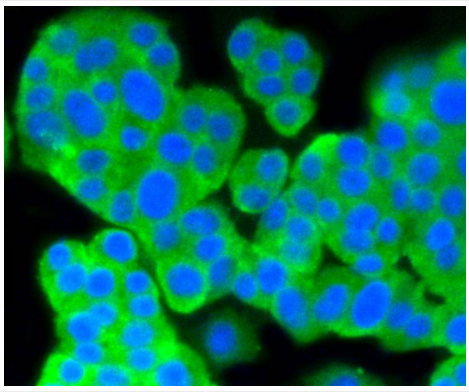
ICC staining PKC alpha in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



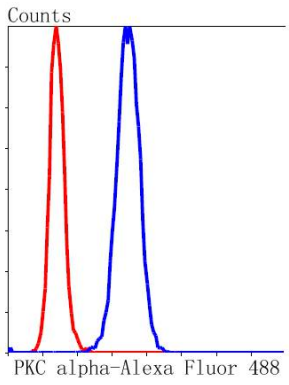
ICC staining PKC alpha in CRC cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



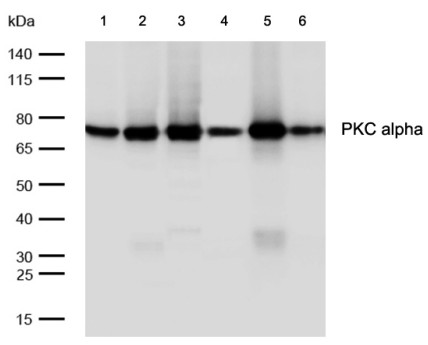
ICC staining PKC alpha in A549 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



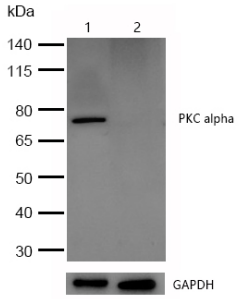
ICC staining PKC alpha in PC12 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of Hela cells with PKC alpha antibody at 1/50 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.



All lanes: PKC alpha Rabbit mAb at 1/1k dilutionLane 1 : Hela whole cell lysates Lane 2 : 293 whole cell lysates Lane 3 : C6 whole cell lysates Lane 4 : Mouse liver lysates Lane 5 : Mouse spleen lysates Lane 6 : Rat liver lysates Lysates/proteins at 20 µg per lane.SecondaryAll lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilutionPredicted band size: 77 kDa Observed band size: 75 kDaExposure time: 5 seconds



All lanes :PKC alpha Rabbit mAb at 1/1k dilutionLane 1 : Wild-type HAP1 cell lysateLane 2 : PKC alpha knockdown HAP1 cell lysateLysates/proteins at 20 µg per lane.

Background

Members of the protein kinase C (PKC) family play a key regulatory role in a variety of cellular functions including cell growth and differentiation, gene expression, hormone secretion and membrane function. PKCs were originally identified as serine/threonine protein kinases whose activity was dependent on calcium and phospholipids. Diacylglycerols (DAG) and tumor-promoting phorbol esters bind to and activate PKC. PKCs can be subdivided into many different isoforms. Patterns of expression for each PKC isoform differ among tissues and PKC family members exhibit clear differences in their cofactor dependencies. For instance, the kinase activities of PKC and oΩ½oΩ½ are independent of Ca2+. On the other hand, most of the other PKC members possess phorbol ester-binding activities and kinase activities.

References

1. Wang XH et al. Cannabinoid CB1 receptor signaling dichotomously modulates inhibitory and excitatory synaptic transmission in rat inner retina. Brain Struct Funct 221:301-16 (2016).
2. Cao Y et al. Regulators of G protein signaling RGS7 and RGS11 determine the onset of the light response in ON bipolar neurons. Proc Natl Acad Sci U S A 109:7905-10 (2012).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.