

For Research Use Only

# PKC Alpha Monoclonal antibody, PBS Only

Catalog Number: 66421-1-PBS

Featured Product



## Basic Information

<b>Catalog Number:</b> 66421-1-PBS	<b>GenBank Accession Number:</b> BC109274	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1000 µg/ml by 5578 Nanodrop;	<b>GeneID (NCBI):</b> UNIPROT ID: P17252	<b>CloneNo.:</b> 1D11F4
<b>Source:</b> Mouse	<b>Full Name:</b> protein kinase C, alpha	
<b>Isotype:</b> IgG1	<b>Observed MW:</b> 77 kDa	
<b>Immunogen Catalog Number:</b> AG17275		

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, FC (Intra), Indirect ELISA

**Species Specificity:**  
human, mouse, rat

## Background Information

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. PRKCA 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.

## Storage

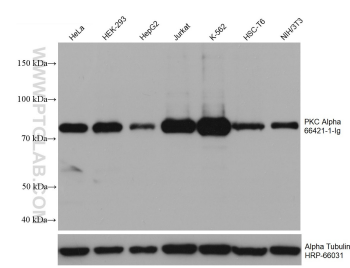
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

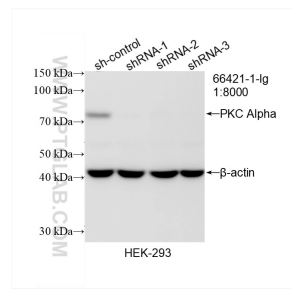
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

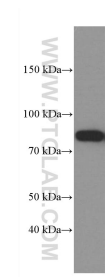
Selected Validation Data



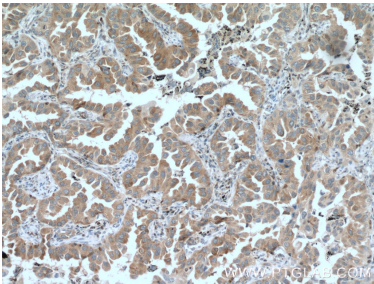
Various lysates were subjected to SDS PAGE followed by western blot with 66421-1-Ig (PKC Alpha antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66421-1-PBS in a different storage buffer formulation.



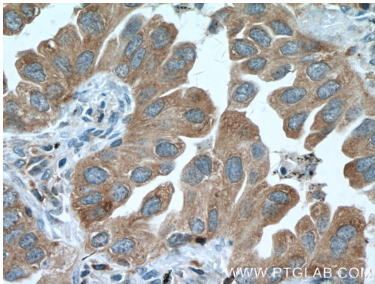
WB result of PKC Alpha antibody (66421-1-Ig; 1:8000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PKC Alpha transfected HEK-293 cells. This data was developed using the same antibody clone with 66421-1-PBS in a different storage buffer formulation.



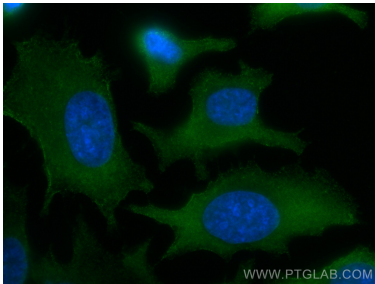
HeLa cells were subjected to SDS PAGE followed by western blot with 66421-1-Ig (PKC alpha antibody at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66421-1-PBS in a different storage buffer formulation.



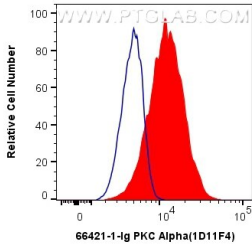
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 66421-1-Ig (PKC alpha antibody at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66421-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 66421-1-Ig (PKC alpha antibody at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66421-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using PKC Alpha antibody (66421-1-Ig, Clone: 1D11F4) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 66421-1-PBS in a different storage buffer formulation.



1X10<sup>6</sup> HeLa cells were intracellularly stained with 0.4 ug Anti-Human PKC Alpha (66421-1-Ig, Clone:1D11F4) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG1 Isotype Control (MOPC-21) (65124-1-Ig, Clone: MOPC-21) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 66421-1-