

For Research Use Only

# CoraLite®488-conjugated PKC Alpha Monoclonal antibody



Catalog Number:CL488-66421

## Basic Information

<b>Catalog Number:</b> CL488-66421	<b>GenBank Accession Number:</b> BC109274	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 5578	<b>CloneNo.:</b> 1D11F4
<b>Source:</b> Mouse	<b>Full Name:</b> protein kinase C, alpha	<b>Recommended Dilutions:</b> IF 1:50-1:500
<b>Isotype:</b> IgG1		<b>Excitation/Emission maxima wavelengths:</b> 488 nm/515 nm
<b>Immunogen Catalog Number:</b> AG17275		

## Applications

<b>Tested Applications:</b> FC, IF	<b>Positive Controls:</b> IF : HeLa cells,
<b>Species Specificity:</b> 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 -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

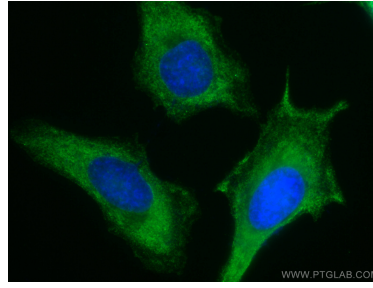
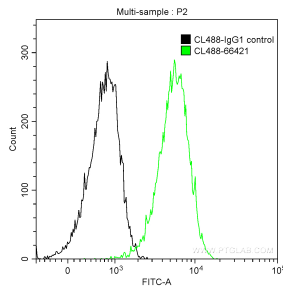
For technical support and original validation data for this product please contact:

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



1X10<sup>6</sup> HeLa cells were intracellularly stained with 0.2 ug CoraLite@488 Anti-Human PKC Alpha (CL488-66421, Clone:1D11F4) (green), and 0.2 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with 0.1% TritonX-100.

Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using CoraLite@488-conjugated PKC Alpha antibody (CL488-66421, Clone: 1D11F4) at dilution of 1:100.