

For Research Use Only

# Phospho-PKC Alpha (Thr638) Recombinant antibody, PBS Only

Catalog Number: 81575-2-PBS



## Basic Information

<b>Catalog Number:</b> 81575-2-PBS	<b>GenBank Accession Number:</b> AK055431	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 5578	<b>CloneNo.:</b> 241844A10
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P17252	
<b>Isotype:</b> IgG	<b>Full Name:</b> protein kinase C, alpha	
	<b>Calculated MW:</b> 77 kDa	
	<b>Observed MW:</b> 77 kDa	

## Applications

**Tested Applications:**  
WB, Indirect ELISA

**Species Specificity:**  
human

## Background Information

PKCs are a family of serine/threonine kinases involved in various processes in cells including proliferation, differentiation, cell survival, and apoptosis. PKC family is composed of three different subgroups: conventional (cPKC), the novel (nPKC) and atypical (aPKC). PKC $\alpha$ ,  $\beta$ 1,  $\beta$ 2, and  $\gamma$  belong to cPKC, PKC $\delta$ ,  $\epsilon$ ,  $\eta$  and  $\theta$  are nPKC, whereas aPKC comprises of PKC $\zeta$  and  $\lambda$ /1. All PKCs consist of the N-terminal regulatory region and C-terminal catalytic region (kinase domain). PKCs are physiologically activated by various extracellular signals transduced by hormones, growth factors, cytokines or antigens. The presence of activated PKCs on internal membranes leads to the phosphorylation of various interacting proteins. (PMID: 32466765, PMID: 12417016)

## Storage

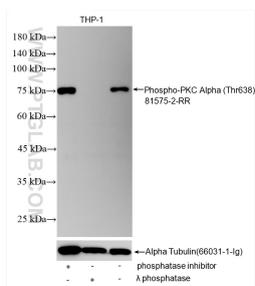
**Storage:**  
Store at -80°C.

**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  
W: ptglab.com

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

## Selected Validation Data



Non-treated THP-1 cells, phosphatase inhibitor treated THP-1 cells and λ phosphatase treated THP-1 cells were subjected to SDS PAGE followed by western blot with 81575-2-RR (Phospho-PKC Alpha (Thr638) antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Alpha Tubulin (66031-1-Ig) antibody as a loading control. This data was developed using the same antibody clone with 81575-2-

