For Research Use Only

## PKC Alpha Polyclonal antibody

Catalog Number:21991-1-AP

Featured Product

57 Publications

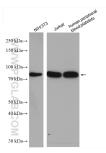
Antibodies | ELISA kits | Proteins www.ptglab.com

Basic Information	Catalog Number: 21991-1-AP	GenBank Accession AK055431	Number:	Purification Method: Antigen affinity purification	
	Concentration: GeneID (NCBI):			Recommended Dilutions: WB: 1:2000-1:12000	
	600 ug/ml	5578			
	Source: UNIPROT ID: Rabbit P17252			IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate	
	Isotype:	Full Name:		IHC: 1:20-1:200 IF-P: 1:50-1:500 IF/ICC: 1:50-1:500 FC (Intra): 0.40 ug per 10^6 cells in a 100 µl suspension	
	IgG	protein kinase C, al	pha		
	Immunogen Catalog Number: AG17275	Calculated MW: 77 kDa			
		Observed MW: 77 kDa			
Applications			Positive Cor	Positive Controls:	
	WB, IHC, IF/ICC, IF-P, FC (Intra), IP, ELISA Cited Applications: WB, IHC, IF, IP		WB : HeLa cells, HEK-293 cells, Jurkat cells, NIH/3T3 cells, human peripheral blood platelets, rat kidney tissue		
					Species Specificity:
	human, mouse, rat		IHC : human thyroid cancer tissue, mouse brain tissu		
	Cited Species: human, mouse, rat, pig, monkey		IF-P : rat eye	F-P : rat eye tissue,	
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0		IF/ICC : HeLa cells, NIH/3T3 cells, HepG2 cells		
			FC (Intra) : HeLa cells, Jurkat cells		
	Background Information	and the second messenger diacy are known to be involved in dive for phorbol esters, a class of tumo is believed to play a distinct role play roles in many different cellu	glycerol. PKC family men erse cellular signaling pat pr promoters. Each memb e in cells. PRKCA is one of ular processes, such as cel udies in mice suggest that	mbers phosphon hways. PKC fam er of the PKC fan the PKC family i I adhesion, cell	I kinases that can be activated by calciu (late a wide variety of protein targets ar ily members also serve as major recepto nily has a specific expression profile an members. This kinase has been reported transformation, cell cycle checkpoint, ar y be a fundamental regulator of cardiac
	Author	Pubmed ID Jour	rnal	Application	
Notable Publications		29033837 Fror	nt Pharmacol	WB	
Notable Publications	Lianhong Yin				
Notable Publications	Lianhong Yin Chunming Gu	36109490 Onc	ogenesis	WB	
Notable Publications			ogenesis ol Lett	WB	

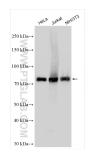
For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

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

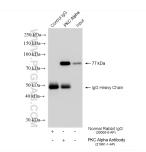
## Selected Validation Data



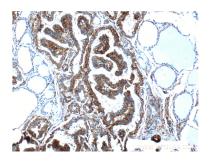
Various lysates were subjected to SDS PAGE followed by western blot with 21991-1-AP (PKC alpha antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



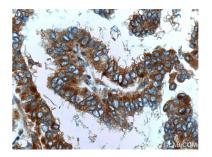
Various lysates were subjected to SDS PAGE followed by western blot with 21991-1-AP (PKC Alpha antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



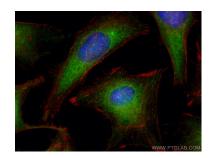
IP result of anti-PKC Alpha (IP:21991-1-AP, 4ug; Detection:21991-1-AP 1:3000) with NIH/3T3 cells lysate 1320 ug.



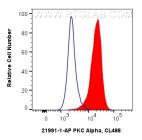
Immunohistochemical analysis of paraffinembedded human thyroid cancer tissue slide using 21991-1-AP (PKC alpha antibody at dilution of 1:200 (under 10x lens).



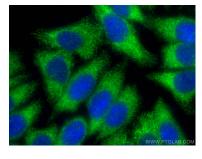
Immunohistochemical analysis of paraffinembedded human thyroid cancer tissue slide using 21991-1-AP (PKC alpha antibody at dilution of 1:200 (under 40x lens).



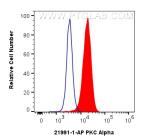
Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using PKC Alpha antibody (21991-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



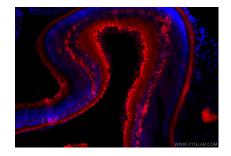
1X10^6 HeLa cells were intracellularly stained with 0.4 ug Anti-Human PKC Alpha (21991-1-AP) and Coralite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP, Clone: ) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using PKC Alpha antibody (21991-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1x10^6 Jurkat cells were intracellularly stained with 0.25 ug PKC Alpha Polyclonal antibody (21991-1-AP) and Coralite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded rat eye tissue using PKC Alpha antibody (21991-1-AP) at dilution of 1:200 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).