For Research Use Only

pan-PKC Polyclonal antibody Catalog Number:12919-1-AP Featured Product 30 P

Featured Product 30 Publications



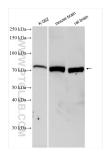
Basic Information	Catalog Number: 12919-1-AP	GenBank Accession Number: BC036472		Purification Method: Antigen affinity purification
	Size: 150ul, Concentration: 500 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG3591	GenelD (NCBI):	ta	Recommended Dilutions: WB: 1:1000-1:8000 IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC: 1:50-1:500 IF/ICC: 1:200-1:800 IF: 1:150-1:600 FC (Intra): 0.40 ug per 10^6 cells in a 100 µl suspension
Applications	WB, IHC, IF, IF/ICC, FC (Intra), IP, ELISA W Cited Applications: pe		Positive Cont	trols:
			WB : K-562 cells, mouse thymus tissue, human peripheral blood platelets, mouse brain tissue, rat brain tissue	
	Species Specificity:		IP : mouse brain tissue,	
	human, mouse, rat, zebrafish		IHC : human breast cancer tissue,	
	Cited Species: human, mouse, rat, zebrafish		IF/ICC : K-56	2 cells,
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0		IF : zebrafish retina,	
			FC (Intra) : K-562 cells,	
Background Information	Protein kinase C (PKC) is a family of serine- and threonine-specific protein kinases that can be activated by calcium and second messenger diacylglycerol. Protein kinase Cs (PKCs) are signaling molecules that play key roles in many cellular processes, including secretion, gene expression, proliferation, and muscle contraction. The PKC family is broadly divided into three subgroups: classical, novel, and atypical PKCs. These subgroups differ in both protein sequences and mechanistic requirements for catalytic activity. PKC beta is one of the PKC family members. PKC beta has been reported to be involved in many different cellular functions, such as B cell activation, apoptosis induction, endothelial cell proliferation, and intestinal sugar absorption. Studies in mice also suggest that this kinase may also regulate neuronal functions and correlate fear-induced conflict behavior after stress. This antibody can recognize PKC beta, PKC alpha, PKC gamma, PKC epsilon and PKC delta.			
Notable Publications	Author Pu	bmed ID Jou	rnal	Application
			iyon	WB
	Jian-Feng Wu 27	748887 On	col Rep	
	Rui Liu 26	459497 Mol	Med Rep	
Storage	Storage: Store at -20°C. Stable for one year af Storage Buffer: PBS with 0.02% sodium azide and 50 Aliquoting is unnecessary for -20°C	0% glycerol, pH7.3		
*** 20ul sizes contain 0.1% BSA	Audaoung is annecessary for -20 C	Juidee		
For technical support and original validation da	rt and original validation data for this product please contact: 1-888-478-4522) (toll free E: proteintech@ptglab.com E: proteintech@ptglab.com		This product is exclusively available under Proteinte Group brand and is not available to purchase from an	

in USA), or 1(312) 455-8498 (outside USA)

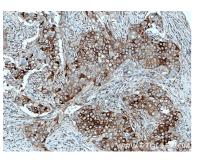
W: ptglab.com

other manufacturer.

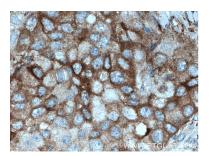
Selected Validation Data



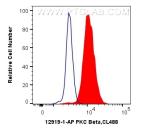
Various lysates were subjected to SDS PAGE followed by western blot with 12919-1-AP (PKC Beta antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



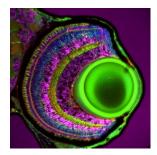
Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 12919-1-AP (PKC beta antibody) at dilution of 1:200 (under 10x lens).



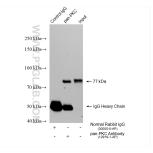
Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 12919-1-AP (PKC beta antibody) at dilution of 1:200 (under 40x lens).



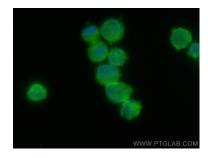
1X10^6 K-562 cells were intracellularly stained with 0.4 ug Anti-Human PKC Beta (12919-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescence analysis of bipolar cells labelled with pan-PKC polyclonal antibody (12919-1-AP, green) on tissue sections of the zebrafish retina at 5 days post fertilisation. Dilution 1:300. Tissue fixed overnight in 4% PFA. Müller glia, red; DAPI, blue; HuC/D, magenta. Data generated by Natalia Jaroszynska in Professor Ryan MacDonald's lab, University College London, UK.



IP result of anti-pan-PKC (IP:12919-1-AP, 4ug; Detection:12919-1-AP 1:2000) with mouse brain tissue lysate 2100 ug.



Immunofluorescent analysis of (4% PFA) fixed K-562 cells using pan-PKC antibody (12919-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).