For Research Use Only

PKC Gamma Polyclonal antibody

Catalog Number:14364-1-AP 10 Publications

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Basic Information

Catalog Number:
14364-1-AP

Size:
150ul , Concentration: 500 μg/ml by Nanodrop and 253 μg/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG5681

GenBank Accession Number:
BC047876

GeneID (NCBI):
5582

Full Name:
protein kinase C, gamma

Calculated MW:
78 kDa

Observed MW:
76-80 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:5000-1:20000
IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
IHC 1:50-1:500
IF 1:50-1:500

Applications

Tested Applications:
FC, IF, IHC, IP, WB, ELISA

Cited Applications:
IF, IHC, WB

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse brain tissue, human brain tissue

IP : mouse brain tissue,

IHC : human brain tissue, human cerebellum tissue, rat brain tissue

IF : HeLa cells, SH-SY5Y 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. PKC family members phosphorylate a wide variety of protein targets and are known to be involved in diverse cellular signaling pathways. PKC gamma is a neuron-specific member of the classical PKCs and is activated and translocated to subcellular regions as a result of various stimuli, including diacylglycerol synthesis, increased intracellular Ca(2+) and phorbol esters. Defects in this protein have been associated with spinocerebellar ataxia type 14 (SCA14), an autosomal dominant neurodegenerative disease.

Notable Publications

Author	Pubmed ID	Journal	Application
Shuyan Liu	36158087	Heliyon	WB
Guangming Zhang	34470528	Cell Transplant	WB
Xiao-Tian Liu	34634284	J Neurosci Methods	IF

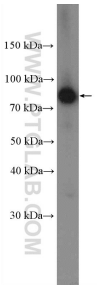
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

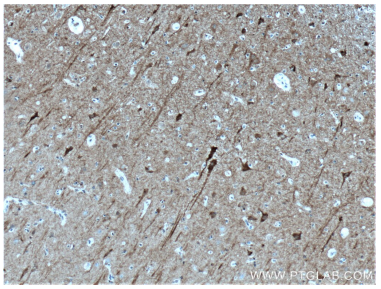
*** 20ul sizes contain 0.1% BSA

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

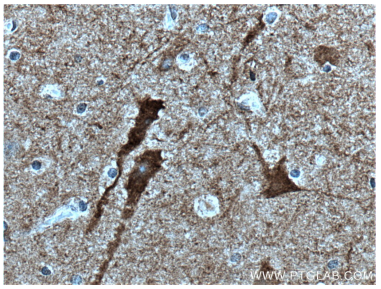
Selected Validation Data



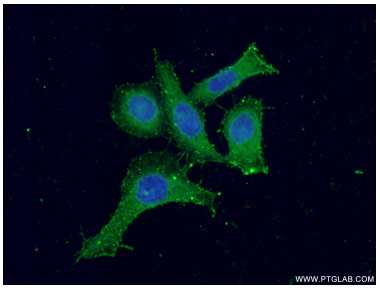
mouse brain tissue were subjected to SDS PAGE followed by western blot with 14364-1-AP (PKC gamma antibody at dilution of 1:10000 incubated at room temperature for 1.5 hours.



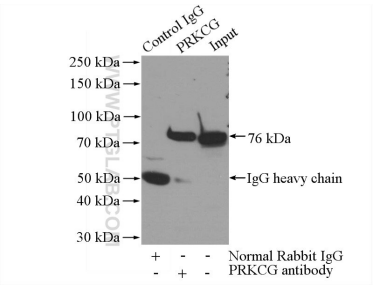
Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 14364-1-AP (PKC gamma antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



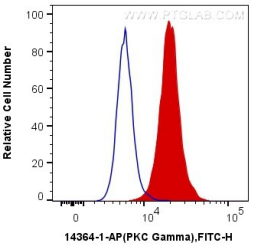
Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 14364-1-AP (PKC gamma antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using 14364-1-AP (PKC gamma antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IP Result of anti-PKC gamma (IP:14364-1-AP, 4ug; Detection:14364-1-AP 1:500) with mouse brain tissue lysate 2640ug.



1X10^6 HeLa cells were intracellularly stained with 0.2 ug Anti-Human PKC Gamma (14364-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.2 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).