For Research Use Only

PKC Gamma Monoclonal antibody

Catalog Number:66429-1-Ig

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Basic Information

Catalog Number:
66429-1-Ig

Size:
150ul , Concentration: 1600 μg/ml by Nanodrop and 1000 μg/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG2a

Immunogen Catalog Number:
AG5910

GenBank Accession Number:
BC047876

GeneID (NCBI):
5582

Full Name:
protein kinase C, gamma

Calculated MW:
78 kDa

Observed MW:
78 kDa

Purification Method:
Protein A purification

CloneNo.:
2F4B9

Recommended Dilutions:
WB 1:2000-1:5000
IHC 1:50-1:500
IF 1:50-1:500

Applications

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

Species Specificity:
human, mouse, rat, pig

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 : HeLa cells, HEK-293 cells, human cerebellum tissue, pig brain tissue, rat brain tissue, mouse brain tissue

IHC : human brain tissue,

IF : 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.

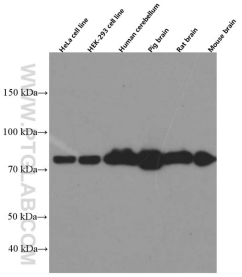
Storage

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

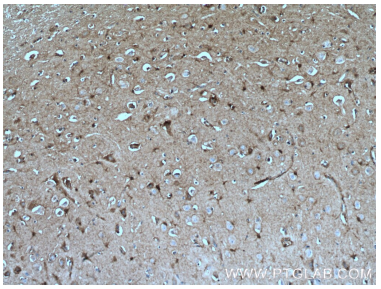
***** 20ul sizes contain 0.1% BSA**

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

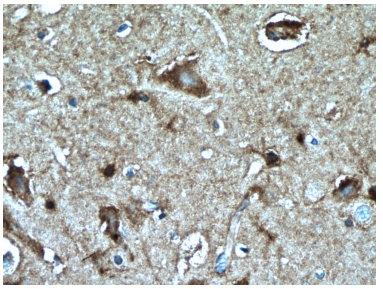
Selected Validation Data



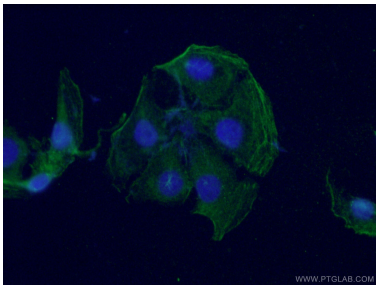
Various lysates were subjected to SDS PAGE followed by western blot with 66429-1-Ig (PKC gamma antibody at dilution of 1:5000 incubated at room temperature for 1.5 hours.



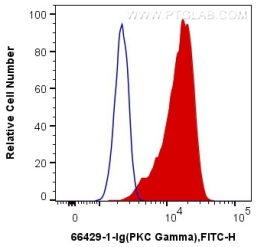
Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 66429-1-Ig (PKC gamma antibody at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 66429-1-Ig (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 SH-SY5Y cells using 66429-1-Ig(PKC gamma antibody) at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



1X10^6 SH-SY5Y cells were intracellularly stained with 0.2 ug Anti-Human PKC Gamma (66429-1-Ig, Clone:2F4B9) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse 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).