

# PKC Gamma Monoclonal antibody

Catalog Number: 66429-1-Ig

## Basic Information

Catalog Number: 66429-1-Ig	GenBank Accession Number: BC047876	Purification Method: Protein A purification
Size: 1600 µg/ml	GeneID (NCBI): 5582	CloneNo.: 2F4B9
Source: Mouse	UNIPROT ID: P05129	Recommended Dilutions: WB 1:2000-1:5000 IHC 1:50-1:500 IF/ICC 1:50-1:500
Isotype: IgG2a	Full Name: protein kinase C, gamma	
Immunogen Catalog Number: AG5910	Calculated MW: 78 kDa Observed MW: 78 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, FC (Intra), ELISA	<b>Positive Controls:</b> <b>WB</b> : HeLa cells, HEK-293 cells, human cerebellum tissue, pig brain tissue, rat brain tissue, mouse brain tissue <b>IHC</b> : human brain tissue, <b>IF/ICC</b> : SH-SY5Y cells,
<b>Species Specificity:</b> human, mouse, rat, pig	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

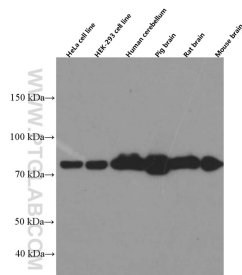
## Background Information

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<sup>2+</sup> and phorbol esters. Defects in this protein have been associated with spinocerebellar ataxia type 14 (SCA14), an autosomal dominant neurodegenerative disease.

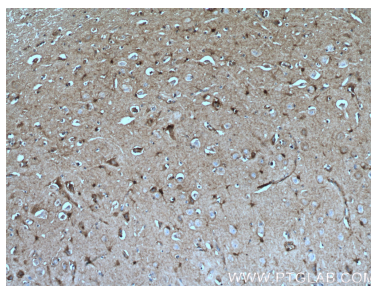
## Storage

**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

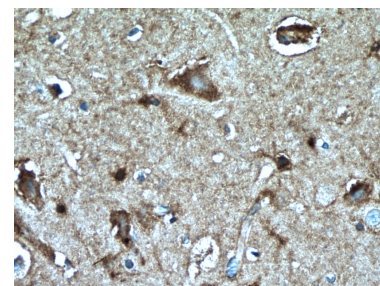
## Selected Validation Data



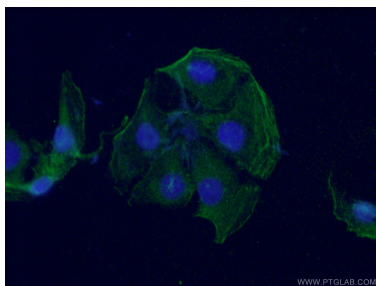
Various lysates were subjected to SDS PAGE followed by western blot with 66429-1-Ig (PKC gamma antibody at dilution of 1:5000 incubated at room temperature for 1.5 hours.



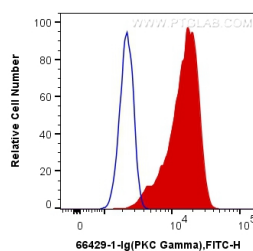
Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 66429-1-Ig (PKC gamma antibody at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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<sup>6</sup> 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).