

## Basic Information

<b>Product Name</b>	Anti-PKC Gamma/PRKCG Antibody (Clone#MC5)	
<b>Gene Name</b>	PRKCG	
<b>Source</b>	Mouse	
<b>Clonality</b>	Monoclonal	
<b>Isotype</b>	IgG2a	
<b>Species Reactivity</b>	human, mouse, rat, rabbit	
<b>Tested Application</b>	WB, IHC	
<b>Contents</b>	200ug/ml antibody with PBS , 0.02% NaN <sub>3</sub> , 1mg BSA and 50% glycerol.	
<b>Immunogen</b>	Polypeptide	
<b>Concentration</b>	200ug/ml	
<b>Purification</b>	protein G purified.	
<b>Observed MW</b>	80 kDa	
<b>Dilution Ratios</b>	Western blot (WB):	1:100-400
	Immunohistochemistry (IHC):	1:10-50
	(Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

## Storage

12 months from date of receipt, -20°C as supplied.

## Background Information

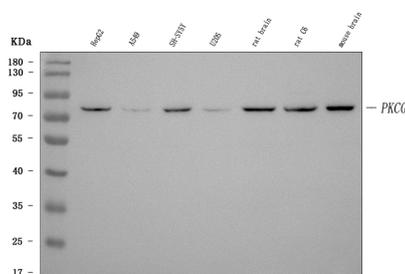
The gamma isotype of protein kinase C (PKC gamma) is a member of the classical PKC (cPKC) subfamily which is activated by Ca<sup>2+</sup> and diacylglycerol in the presence of phosphatidylserine. Physiologically, PKC gamma is activated by a mechanism coupled with receptor-mediated breakdown of inositol phospholipid as other cPKC isotypes such as PKC alpha and PKC beta. PKC gamma is expressed solely in the brain and spinal cord and its localization is restricted to neurons, while PKC alpha and PKC beta are expressed in many tissues in addition to the brain. Within the brain, PKC gamma is the most abundant in the cerebellum, hippocampus and cerebral cortex, where the existence of neuronal plasticity has been demonstrated. PKC gamma gene is mutated in spinocerebellar ataxia type 14 (SCA14). Verbeek et al. (2005) point out the specific alterations in mutant PKC gamma function that could lead to the selective neuronal

degeneration of SCA14.

## Reference

Anti-PKC Gamma/PRKCG Antibody (Clone#MC5)被引用在11文献中。

## Selected Validation Data



Western blot analysis of anti- PKCG antibody (BM0401). The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: HepG2 whole cell lysates,

Lane 2: A549 whole cell lysates,

Lane 3: SH-SY5Y whole cell lysates,

Lane 4: U2OS whole cell lysates,

Lane 5: rat brain tissue lysates,

Lane 6: rat C6 tissue lysates,

Lane 7: mouse brain tissue lysates.

Use mouse anti- PKCG 1:1000, probed with a goat anti-mouse IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1001). A specific band was detected for PKCG at approximately 80kD. The expected band size for PKCG is at 78kD.