

Anti-PKC gamma (phospho T674) antibody ab5797

★★★★★ [1 Abreviews](#) [2 References](#) [4 图像](#)

概述

产品名称	Anti-PKC gamma (phospho T674)抗体
描述	兔多克隆抗体to PKC gamma (phospho T674)
宿主	Rabbit
特异性	PKC alpha (69%) may cross-react in cells expressing a high level of this protein. The peptide competition data (see Figure) suggest that this antibody will cross-react with PKC alpha [pS657] (69% homologous), beta 1 [pS661] (54%) and PKC eta [pS674] (38%).
经测试应用	适用于: WB, IHC-P
种属反应性	与反应: Mouse, Human
免疫原	Synthetic peptide corresponding to PKC gamma (phospho T674).
阳性对照	WB: HeLa cells treated with PMA, a phorbol ester. IHC-P: Mouse cerebellum tissue, human cerebellum tissue.

常规说明

Protein Kinase C gamma (PKC gamma) is an 80 kDa member of the conventional group (cPKCs: sensitive to calcium, diacylglycerol, phosphatidylserine and phorbol esters) of the PKC family of serine/threonine kinases that are involved in a wide range of physiological processes including mitogenesis, cell survival and transcriptional regulation. PKC gamma plays a key role in neuronal signal transduction and in regulating intercellular communication. The activation loop threonine (threonine 514 in PKC gamma) of conventional PKCs is phosphorylated by phosphoinositide-dependent kinase-1 (PDK1), which is necessary for its autophosphorylation on threonine 655 in the turn loop, and threonine 674 in the hydrophobic loop of the carboxy terminus, a critical step in generating a catalytically mature enzyme. The phosphorylation of the hydrophobic loop in the carboxyl terminus of PKCs is believed to be a key determinant in regulating PKC interaction with PDK1.

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	pH: 7.3 Preservative: 0.05% Sodium azide Constituents: PBS, 50% Glycerol (glycerin, glycerine), 0.1% BSA
纯度	Immunogen affinity purified
纯化说明	The antibody has been negatively preadsorbed using a non-phosphopeptide corresponding to the site of phosphorylation to remove antibody that is reactive with non-phosphorylated PKC gamma. The final product is generated by affinity chromatography using a PKC gamma-derived peptide that is phosphorylated at threonine 674.
Primary antibody说明	Protein Kinase C gamma (PKC gamma) is an 80 kDa member of the conventional group (cPKCs: sensitive to calcium, diacylglycerol, phosphatidylserine and phorbol esters) of the PKC family of serine/threonine kinases that are involved in a wide range of physiological processes including mitogenesis, cell survival and transcriptional regulation. PKC gamma plays a key role in neuronal signal transduction and in regulating intercellular communication. The activation loop threonine (threonine 514 in PKC gamma) of conventional PKCs is phosphorylated by phosphoinositide-dependent kinase-1 (PDK1), which is necessary for its autophosphorylation on threonine 655 in the turn loop, and threonine 674 in the hydrophobic loop of the carboxy terminus, a critical step in generating a catalytically mature enzyme. The phosphorylation of the hydrophobic loop in the carboxyl terminus of PKCs is believed to be a key determinant in regulating PKC interaction with PDK1.
克隆	多克隆
同种型	IgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab5797于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度；实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB	★★★★★ (1)	1/1000. Detects a band of approximately 80 kDa.
IHC-P		1/10 - 1/100.

靶标

功能	This is a calcium-activated, phospholipid-dependent, serine- and threonine-specific enzyme. PKC is activated by diacylglycerol which in turn phosphorylates a range of cellular proteins. PKC also serves as the receptor for phorbol esters, a class of tumor promoters.
组织特异性	Expressed in Purkinje cells of the cerebellar cortex.
疾病相关	Defects in PRKCG are the cause of spinocerebellar ataxia type 14 (SCA14) [MIM:605361]. Spinocerebellar ataxia is a clinically and genetically heterogeneous group of cerebellar disorders. Patients show progressive incoordination of gait and often poor coordination of hands, speech and eye movements, due to degeneration of the cerebellum with variable involvement of the

brainstem and spinal cord. SCA14 is an autosomal dominant cerebellar ataxia (ADCA).

序列相似性

Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. PKC subfamily.

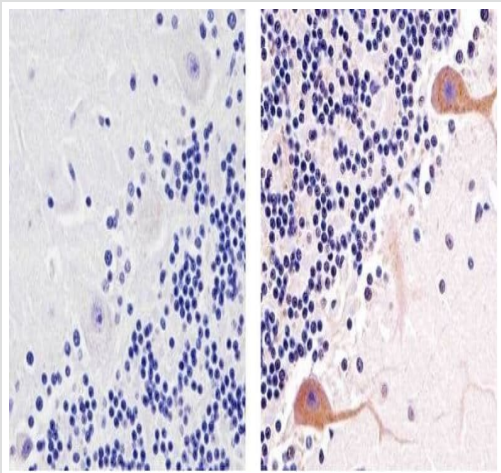
Contains 1 AGC-kinase C-terminal domain.

Contains 1 C2 domain.

Contains 2 phorbol-ester/DAG-type zinc fingers.

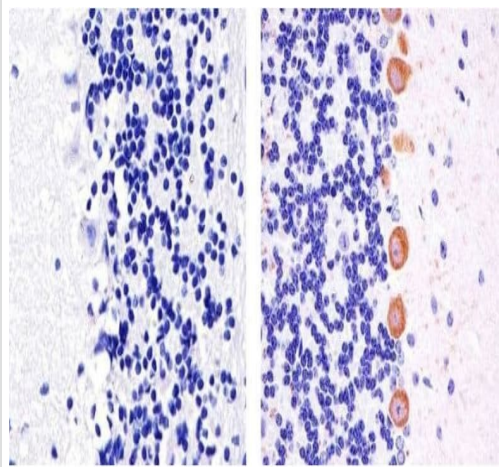
Contains 1 protein kinase domain.

图片



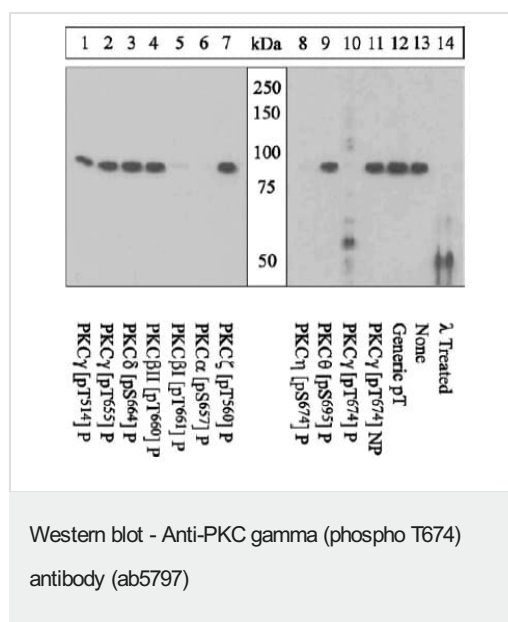
Paraffin embedded Mouse cerebellum tissue (right) stained for PKC gamma using ab5797 at 1/100 dilution in immunohistochemical analysis. Negative control without primary antibody (left).

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PKC gamma (phospho T674) antibody (ab5797)

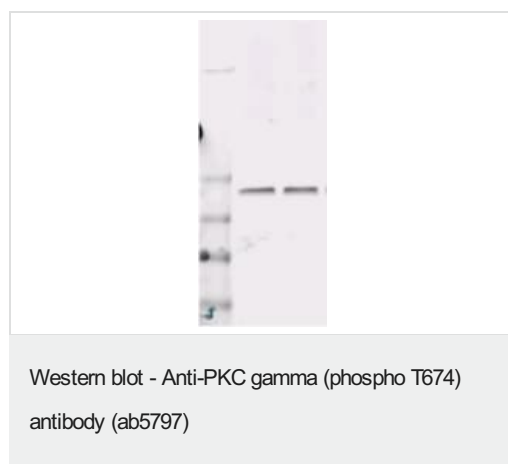


Paraffin embedded Human cerebellum tissue (right) stained for PKC gamma using ab5797 at 1/20 dilution in immunohistochemical analysis. Negative control without primary antibody (left).

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PKC gamma (phospho T674) antibody (ab5797)



Peptide Competition and Phosphatase Treatment: Lysates prepared from HeLa cells stimulated with PMA were resolved by SDS-PAGE on a 10% polyacrylamide gel and transferred to PVDF. Membranes were either left untreated (1-13) or treated with lambda (ë) phosphatase (14), blocked with a 5% BSA-TBST buffer overnight at 4°C, and incubated with 0.50 µg/mL ab5797 antibody for two hours at room temperature in a 3% BSA TBST buffer, following prior incubation with: the phosphopeptide corresponding to the immunogen from other PKC isoforms (1-9), the phosphopeptide immunogen (10), the non-phosphopeptide corresponding to the immunogen (11), a generic phosphothreonine containing peptide (12) or, no peptide (13, 14). After washing, membranes were incubated with goat F(ab')₂ anti-rabbit IgG HRP-conjugate and bands were detected using the Pierce SuperSignal™ method. The data show that the peptide corresponding to PKC gamma [pT674] blocks the antibody signal. The pept



WB from review by Todd O'Buckley submitted 9 April 2004.

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