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Product datasheet

Anti-PKC gamma (phospho T674) antibody ab5797

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製品の概要

製品名	Anti-PKC gamma (phospho T674) antibody
製品の詳細	Rabbit polyclonal to PKC gamma (phospho T674)
由来種	Rabbit
特異性	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%).
アプリケーション	**適用あり:** WB, IHC-P
種交差性	**交差種:** Mouse, Human
免疫原	Synthetic peptide corresponding to PKC gamma (phospho T674).
ポジティブ・コントロール	WB: HeLa cells treated with PMA, a phorbol ester. IHC-P: Mouse cerebellum tissue, human cerebellum tissue.

特記事項

Protein Kinase C gamma (PKC gamma) is an 80 kDa member of the conventional grou(cPKCs: sensitive to calcium, diacylglycerol, phosphotidylserine 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

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
バッファー	pH: 7.3 Preservative: 0.05% Sodium azide Constituents: PBS, 50% Glycerol (glycerin, glycerine), 0.1% BSA
精製度	Immunogen affinity purified
特記事項（精製）	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.
一次抗体 備考	Protein Kinase C gamma (PKC gamma) is an 80 kDa member of the conventional grou(cPKCs: sensitive to calcium, diacylglycerol, phosphotidylserine 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.
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

アプリケーション

The Abpromise guarantee Abpromise保証は、次のテスト済みアプリケーションにおけるab5797の使用に適用されます

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

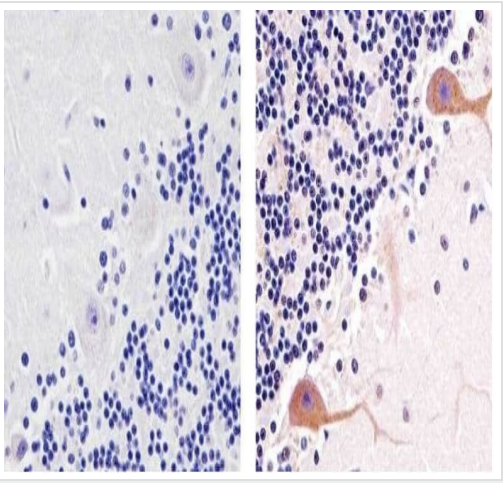
アプリケーション	Abreviews	特記事項
WB	★★★☆☆ (1)	1/1000. Detects a band of approximately 80 kDa.
IHC-P		1/10 - 1/100.

ターゲット情報

機能	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.
組織特異性	Expressed in Purkinje cells of the cerebellar cortex.
関連疾患	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

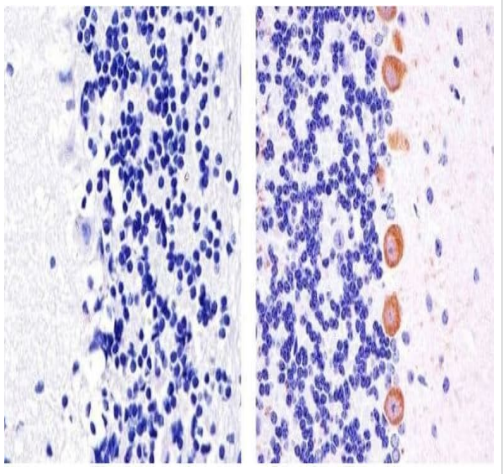
	brainstem and spinal cord. SCA14 is an autosomal dominant cerebellar ataxia (ADCA).
配列類似性	Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. PKC subfamily. Contains 1 AGC-kinase C-terminal domain. Contains 1 C2 domain. Contains 2 phorbol-ester/DAG-type zinc fingers. Contains 1 protein kinase domain.

画像



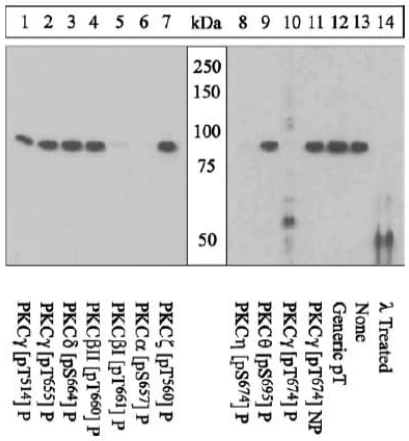
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PKC gamma (phospho T674) antibody (ab5797)

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).



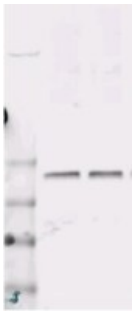
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PKC gamma (phospho T674) antibody (ab5797)

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).



Western blot - 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 SuperSignalTM method. The data show that the peptide corresponding to PKC gamma [pT674] blocks the antibody signal. The pept



Western blot - Anti-PKC gamma (phospho T674) antibody (ab5797)

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

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.co.jp/abpromise** or contact our technical team.

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