

Anti-PKC delta (phospho S299) antibody [EPNCI119] - BSA and Azide free ab188170

リコンビナント **RabMAb**

画像数 2

製品の概要

製品名	Anti-PKC delta (phospho S299) antibody [EPNCI119] - BSA and Azide free
製品の詳細	Rabbit monoclonal [EPNCI119] to PKC delta (phospho S299) - BSA and Azide free
由来種	Rabbit
アプリケーション	適用あり: IHC-P, WB 適用なし: Flow Cyt or ICC/IF
種交差性	交差種: Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: MCF7 treated with 100nM Calyculin A; IHC-P: Human bladder cancer tissue.
特記事項	<p>This product has switched from a hybridoma to recombinant production method on 29th January 2024.</p> <p>ab188170 is the carrier-free version of ab133456.</p> <p>This antibody was developed as part of a collaboration between Epitomics, the National Cancer Institutes Center for Cancer Research and the lab of Peter Blumberg. <u>View antibodies from NCI Center for Cancer Research Collaboration</u>.</p> <p>The auto-phosphorylation of PKC delta at pS299 targeted by ab133456 was identified in the following paper: <u>FEBS Lett. 2007 Jul 24;581(18):3377-81. Novel phosphorylation site markers of protein kinase C delta activation. Durgan J1, Michael N, Totty N, Parker PJ.</u></p> <p>Our <u>carrier-free</u> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our <u>conjugation kits</u> for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p>

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information [see here](#).

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb[®] patents](#).

Rat: We have preliminary internal testing data to indicate this antibody may not react with this species. Please contact us for more information.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C. Do Not Freeze.
バッファー	pH: 7.20 Constituent: 100% PBS
キャリア・フリー	はい
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPNCI119
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ab188170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
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB		Use at an assay dependent concentration. Detects a band of approximately 78 kDa (predicted molecular weight: 78 kDa).

追加情報 Is unsuitable for Flow Cyt or ICC/IF.

ターゲット情報

機能 This is calcium-independent, 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. May play a role in antigen-dependent control of B-cell function. Phosphorylates MUC1 in the C-terminal and

regulates the interaction between MUC1 and beta-catenin.

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.

ドメイン

The C1 domain, containing the phorbol ester/DAG-type region 1 (C1A) and 2 (C1B), is the diacylglycerol sensor.

The C2 domain is a non-calcium binding domain. It binds proteins containing phosphotyrosine in a sequence-specific manner.

翻訳後修飾

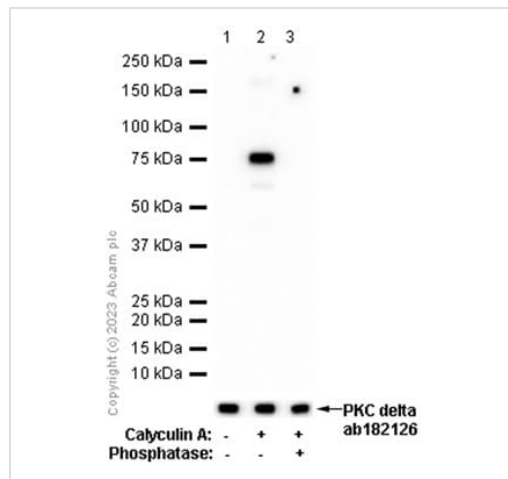
Phosphorylated on Thr-507, within the activation loop. Autophosphorylated and/or phosphorylated.

Although the Thr-507 phosphorylation occurs it is not a prerequisite for enzymatic activity.

細胞内局在

Cytoplasm. Membrane.

画像



Western blot - Anti-PKC delta (phospho S299) antibody [EPNC1119] - BSA and Azide free (ab188170)

All lanes : Anti-PKC delta (phospho S299) antibody [EPNC1119] ([ab133456](#)) at 1/5000 dilution

Lane 1 : Untreated MCF7 (Human breast adenocarcinoma epithelial cell) whole cell lysate

Lane 2 : MCF7 treated with 100nM Calyculin A for 30min whole cell lysate

Lane 3 : MCF7 treated with 100nM Calyculin A for 30min whole cell lysate, then the membrane was incubated with phosphatase

Lysates/proteins at 15 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

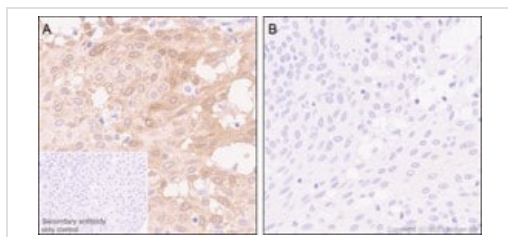
Predicted band size: 78 kDa

Observed band size: 78 kDa

Exposure time: 20 seconds

This data was developed using [ab133456](#), the same antibody clone in a different buffer formulation.

Blocking and diluting buffer and concentration: 5% NFDM/TBST.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PKC delta (phospho S299) antibody [EPNCI119] - BSA and Azide free (ab188170)

This data was developed using **ab133456**, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Human bladder cancer tissue labeling PKC delta with **ab133456** at 1/5000 (0.077 µg/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Positive staining on human bladder cancer without alkaline phosphatase treatment (image A). No signal was detected when tissues were treated with alkaline phosphatase (image B). The human bladder cancer sections were performed by Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). The sections were using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins, then labeling **ab133456** at 1/5000 dilution for 30 mins at room temperature. Counterstained with hematoxylin. The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

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