

Anti-PKC epsilon antibody [EPR1482(2)] ab124806

重组 RabMAb

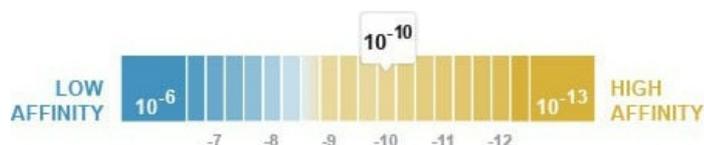
★★★★★ **2 Abreviews** **19 References** **13 图像**

概述

产品名称	Anti-PKC epsilon抗体[EPR1482(2)]
描述	兔单克隆抗体[EPR1482(2)] to PKC epsilon
宿主	Rabbit
特异性	85% homology with PKC alpha, beta and eta
经测试应用	适用于: WB, IHC-P, Flow Cyt, ICC/IF
种属反应性	与反应: Mouse, Rat, Human
免疫原	Synthetic peptide within Human PKC epsilon aa 550-650. The exact sequence is proprietary.
阳性对照	WB: SH-SY5Y, MCF7, HT29 and Jurkat whole cell lysate (ab7899). Mouse and rat heart tissue lysates. IHC-P: Human kidney and endometrium tissues. ICC/IF: HeLa cells. Flow Cyt: SH-SY5Y cells.
常规说明	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C.
解离常数 (K_D)	K _D = 2.59 x 10 ⁻¹⁰ M



[Learn more about K_D](#)

存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, 0.05% BSA, 59% PBS
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR1482(2)
同种型	IgG

应用

The Abpromise guarantee **Abpromise™** 承诺保证使用 ab124806 于以下的经测试应用

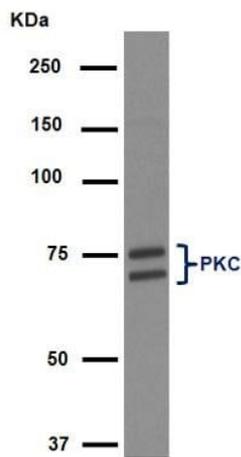
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB	★★★★★ (1)	1/1000 - 1/2000. Detects a band of approximately 82 kDa (predicted molecular weight: 84 kDa).
IHC-P		1/50. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See IHC antigen retrieval protocols . For unpurified use at 1/30.
Flow Cyt		1/200. For unpurified use at 1/150. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF	★★★★★ (1)	1/200. For unpurified use at 1/150.

靶标

功能	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.
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.
结构域	The C1 domain, containing the phorbol ester/DAG-type region 1 (C1A) and 2 (C1B), is the diacylglycerol sensor and the C2 domain is a non-calcium binding domain.
翻译后修饰	Phosphorylation on Thr-566 by PDPK1 triggers autophosphorylation on Ser-729.

图片



Western blot - Anti-PKC epsilon antibody
[EPR1482(2)] (ab124806)

Anti-PKC epsilon antibody [EPR1482(2)] (ab124806) at 1/1000 dilution (unpurified) + Jurkat cell lysate at 10 µg

Secondary

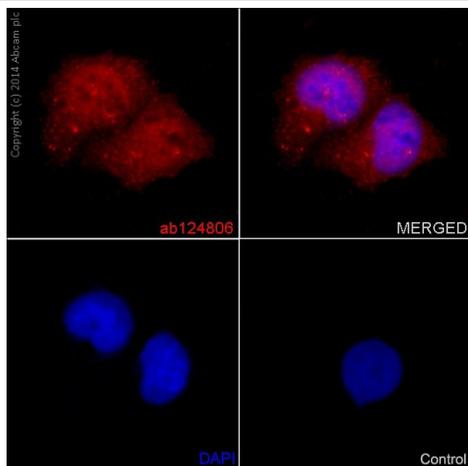
Peroxidase-conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 84 kDa

Observed band size: 82 kDa

Blocking buffer and concentration: 5% NFDN/TBST.

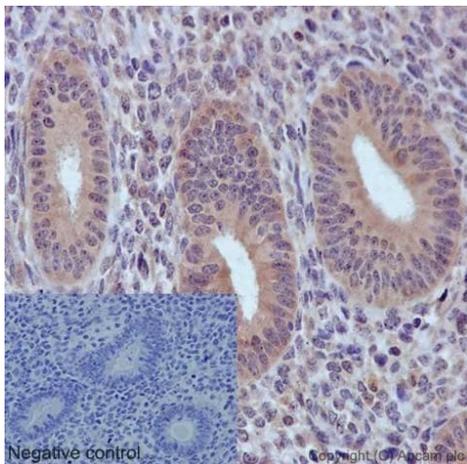
Diluting buffer and concentration: 5% NFDN /TBST.



Immunocytochemistry/ Immunofluorescence - Anti-PKC epsilon antibody [EPR1482(2)] (ab124806)

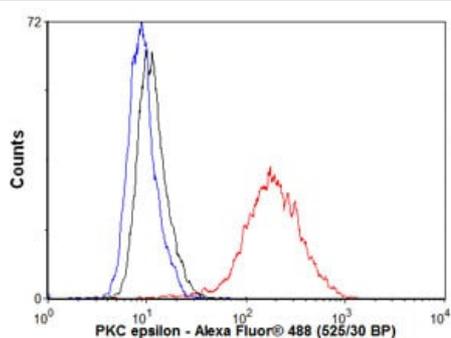
Immunocytochemistry/Immunofluorescence analysis of HeLa cells labelling PKC epsilon with purified ab124806 at 1/150. Cells were fixed with 4% paraformaldehyde. An Alexa Fluor® 555-conjugated goat anti-rabbit IgG (1/500) was used as the secondary antibody. DAPI (blue) was used as the nuclear counterstain.

Control: primary antibody (1/150) and secondary antibody, **ab150113**, an Alexa Fluor® 488-conjugated goat anti-mouse IgG (1/500).



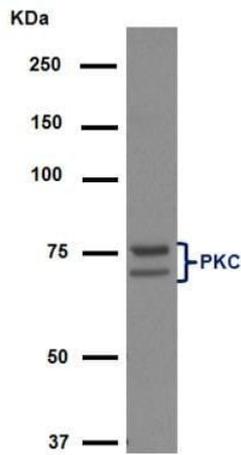
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PKC epsilon antibody [EPR1482(2)] (ab124806)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human endometrium tissue labelling PKC epsilon with purified ab124806 at 1/50. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. A prediluted HRP-polymer conjugated anti-rabbit IgG was used as the secondary antibody. Negative control using PBS instead of primary antibody. Counterstained with Hematoxylin.



Flow Cytometry - Anti-PKC epsilon antibody [EPR1482(2)] (ab124806)

Overlay histogram showing SH-SY5Y cells stained with unpurified ab124806 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab124806, 1/10000 dilution) for 30 min at 22°C. The secondary antibody used was a goat anti-rabbit Alexa Fluor® 488 (IgG; H&L) (ab150077) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (0.1µg/1x10⁶ cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter. This antibody gave a positive signal in SHSY-5Y cells fixed with 80% methanol (5 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.



Western blot - Anti-PKC epsilon antibody [EPR1482(2)] (ab124806)

Anti-PKC epsilon antibody [EPR1482(2)] (ab124806) at 1/1500 dilution (purified) + Jurkat cell lysate at 10 µg

Secondary

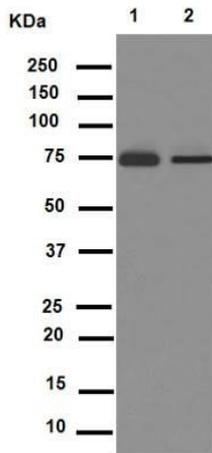
Peroxidase-conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 84 kDa

Observed band size: 82 kDa

Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.



Western blot - Anti-PKC epsilon antibody [EPR1482(2)] (ab124806)

All lanes : Anti-PKC epsilon antibody [EPR1482(2)] (ab124806) at 1/1000 dilution (unpurified)

Lane 1 : Mouse heart tissue lysate

Lane 2 : Rat heart tissue lysate

Lysates/proteins at 10 µg per lane.

Secondary

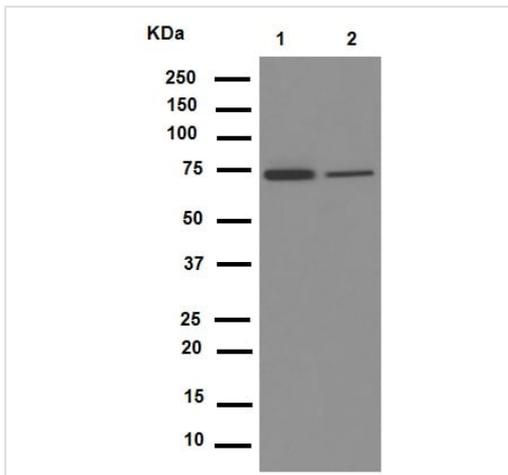
All lanes : Peroxidase-conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 84 kDa

Observed band size: 82 kDa

Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.



Western blot - Anti-PKC epsilon antibody [EPR1482(2)] (ab124806)

All lanes : Anti-PKC epsilon antibody [EPR1482(2)] (ab124806) at 1/1500 dilution (purified)

Lane 1 : Mouse heart tissue lysate

Lane 2 : Rat heart tissue lysate

Lysates/proteins at 10 µg per lane.

Secondary

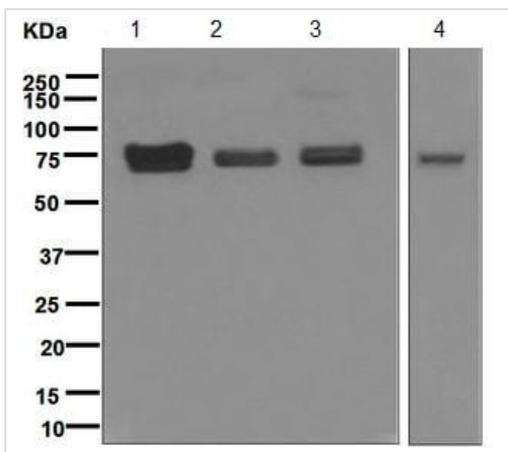
All lanes : Peroxidase-conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 84 kDa

Observed band size: 82 kDa

Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.



Western blot - Anti-PKC epsilon antibody [EPR1482(2)] (ab124806)

All lanes : Anti-PKC epsilon antibody [EPR1482(2)] (ab124806) at 1/10000 dilution (unpurified)

Lane 1 : SH-SY5Y cell lysate

Lane 2 : MCF7 cell lysate

Lane 3 : HT29 cell lysate

Lane 4 : Jurkat cell lysate

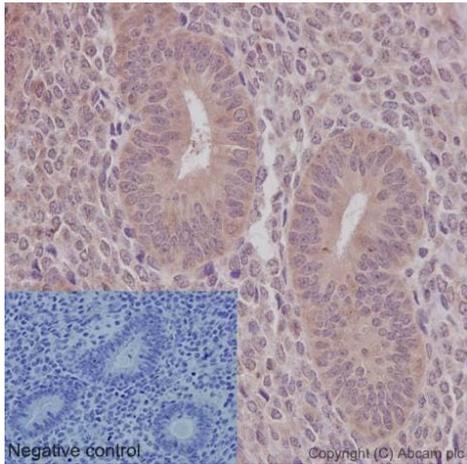
Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP-conjugated goat anti-rabbit IgG at 1/2000 dilution

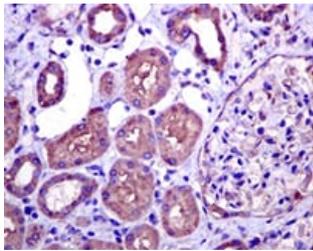
Predicted band size: 84 kDa

Observed band size: 82 kDa



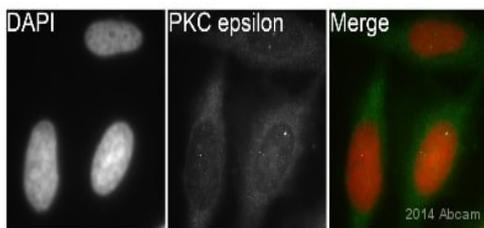
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PKC epsilon antibody [EPR1482(2)] (ab124806)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human endometrium tissue labelling PKC epsilon with unpurified ab124806 at 1/30. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. A prediluted HRP-polymer conjugated anti-rabbit IgG was used as the secondary antibody. Negative control using PBS instead of primary antibody. Counterstained with Hematoxylin.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PKC epsilon antibody [EPR1482(2)] (ab124806)

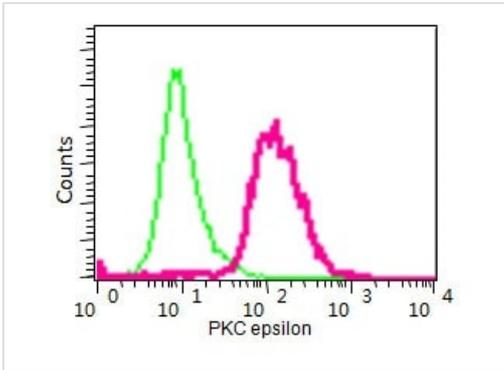
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human kidney tissue labelling PKC epsilon with unpurified ab124806 at 1/100 dilution.



Immunocytochemistry/ Immunofluorescence - Anti-PKC epsilon antibody [EPR1482(2)] (ab124806)

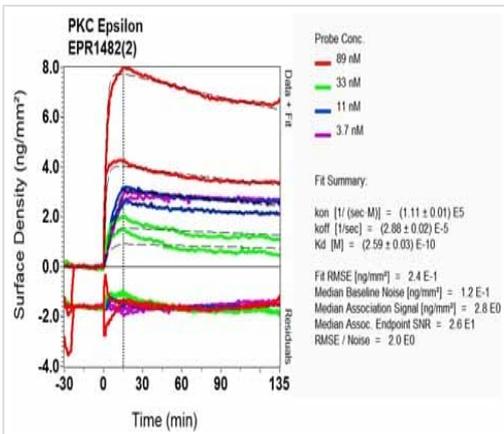
This image is courtesy of an Abreview submitted by Kirk McManus

Unpurified ab124806 staining PKC epsilon in human HeLa cells by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with methanol. Samples were incubated with primary antibody (1/200 in PBS) for 16 hours at 22°C. An Alexa Fluor® 488-conjugated goat anti-rabbit IgG polyclonal (1/200) was used as the secondary antibody. Counterstained with DAPI.



Flow Cytometry - Anti-PKC epsilon antibody
[EPR1482(2)] (ab124806)

Flow cytometry analysis of SH-SY5Y cells labelling PKC epsilon with purified ab124806 (red) at 1/200. Cells were fixed with 2% paraformaldehyde. A FITC-conjugated goat anti-rabbit IgG (1/150) was used as the secondary antibody. Green - Isotype control, rabbit monoclonal IgG.



Other - Anti-PKC epsilon antibody [EPR1482(2)]
(ab124806)

Equilibrium dissociation constant (K_D)

Learn more about K_D

[Click here to learn more about \$K_D\$](#)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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.cn/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors