

Anti-PKD2 antibody [EP1495Y] ab51250

敲除验证 重组 RabMAb

★★★★★ [12 Abreviews](#) [8 References](#) [5 图像](#)

概述

产品名称	Anti-PKD2抗体[EP1495Y]
描述	兔单克隆抗体[EP1495Y] to PKD2
宿主	Rabbit
经测试应用	适用于: WB, IHC-P, ICC/IF 不适用于: IP
种属反应性	与反应: Mouse, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	HeLa whole cell lysate (ab150035) or human breast carcinoma tissue. IF/ICC: HeLa cell line
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: <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 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.

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: 7.20 Preservative: 0.01% Sodium azide Constituents: 49% PBS, 50% Glycerol (glycerin, glycerine), 0.05% BSA
纯度	Protein A purified
克隆	单克隆
克隆编号	EP1495Y

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab51250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	★★★★★ (10)	1/500. Detects a band of approximately 105 kDa (predicted molecular weight: 97 kDa).
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF	★★★★★ (2)	1/100 - 1/250.

应用说明

Is unsuitable for IP.

靶标

功能

Converts transient diacylglycerol (DAG) signals into prolonged physiological effects, downstream of PKC. Involved in resistance to oxidative stress.

组织特异性

Widely expressed.

序列相似性

Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. PKD subfamily. Contains 1 PH domain.

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

Contains 1 protein kinase domain.

翻译后修饰

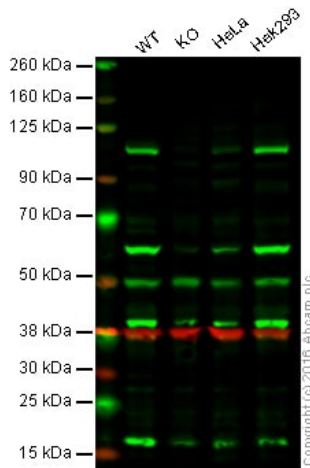
Phosphorylation of Ser-876 correlates with the activation status of the kinase.

Ser-706 is probably phosphorylated by PKC.

细胞定位

Cytoplasm. Membrane. Translocation to the cell membrane is required for kinase activation.

图片



Western blot - Anti-PKD2 antibody [EP1495Y] (ab51250)

Lane 1: Wild-type HAP1 cell lysate (40 µg)

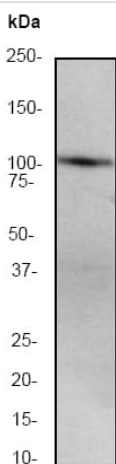
Lane 2: PKD2 knockout HAP1 cell lysate (40 µg)

Lane 3: HeLa cell lysate (20 µg)

Lane 4: HEK293 cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab51250 observed at 110 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab51250 was shown to recognize PKD2 when PKD2 knockout samples were used, along with additional cross-reactive bands. Wild-type and PKD2 knockout samples were subjected to SDS-PAGE. Ab51250 and **ab8245** (loading control to GAPDH) were diluted at 1/500 and 1:10,000 dilution respectively and incubated overnight at 4C. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1:10,000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-PKD2 antibody [EP1495Y] (ab51250)

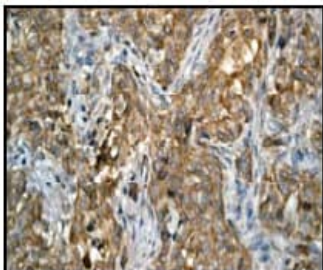
Anti-PKD2 antibody [EP1495Y] (ab51250) at 1/500 dilution + HeLa cell lysate at 10 µg

Secondary

Goat anti-rabbit HRP labeled at 1/2000 dilution

Predicted band size: 97 kDa

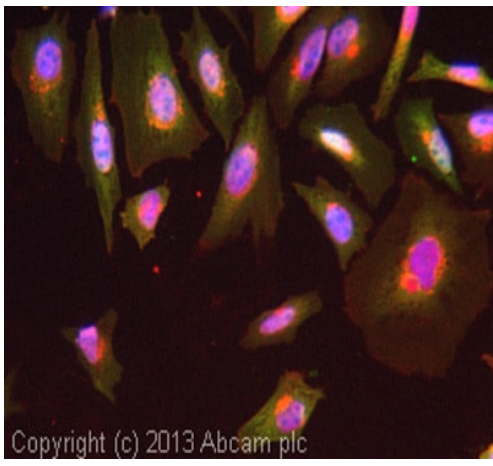
Observed band size: 105 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PKD2 antibody [EP1495Y] (ab51250)

Ab51250 (1:100) staining human PKD2 in human breast carcinoma tissue by immunohistochemistry using paraffin embedded tissue.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-
PKD2 antibody [EP1495Y] (ab51250)

ICC/IF image of ab51250 stained HeLa cells. The cells were 4% Formaldehyde fixed (10 mins) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab51250, 10µg/ml) overnight at +4°C. The secondary antibody (green) was **ab96899**, DyLight® 488 goat anti-rabbit IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

Why choose a recombinant antibody?



Anti-PKD2 antibody [EP1495Y] (ab51250)

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

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