





Anti-PDZK1 antibody ab121248

4 图像

概述

产品名称	Anti-PDZK1抗体
描述	兔多克隆抗体to PDZK1
宿主	Rabbit
经测试应用	适用于: ICC/IF, WB, IHC-P
种属反应性	与反应: Mouse, Rat, Human 预测可用于: Rabbit, Cow, Chinese hamster 
免疫原	Recombinant fragment: MTSTFNPREC KLSKQEGQNY GFFLRIEKDT EGHLVRVVEK CSPAEKAGLQ DGDRVLRING VFVDKEEHMQ VVDLVRKSGN SVTLLVLDGD SYEKAV, corresponding to amino acids 1-96 of Human PDZK1  Run BLAST with   Run BLAST with 
阳性对照	Human, mouse and rat liver lysate; Human kidney tissue.
常规说明	<p>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.</p> <p>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</p>

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: 0.02% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine)
纯度	Immunogen affinity purified
克隆	多克隆
同种型	IgG

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab121248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
ICC/IF		Use a concentration of 0.25 - 2 µg/ml.
WB		Use a concentration of 0.04 - 0.4 µg/ml. Predicted molecular weight: 57 kDa.
IHC-P		1/50 - 1/200. Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol. Use buffer at pH 6 for antigen retrieval.

靶标

功能

A scaffold protein that connects plasma membrane proteins and regulatory components, regulating their surface expression in epithelial cells apical domains. May be involved in the coordination of a diverse range of regulatory processes for ion transport and second messenger cascades. In complex with SLC9A3R1, may cluster proteins that are functionally dependent in a mutual fashion and modulate the trafficking and the activity of the associated membrane proteins. May play a role in the cellular mechanisms associated with multidrug resistance through its interaction with ABCC2 and PDZK1IP1. May potentiate the CFTR chloride channel activity. May function to connect SCARB1 with the cellular machineries for intracellular cholesterol transport and/or metabolism. May be involved in the regulation of proximal tubular Na(+)-dependent inorganic phosphate cotransport therefore playing an important role in tubule function.

组织特异性

Expression is limited to epithelial cells. Expressed in the kidney (brush border of proximal tubule), pancreas, liver, and small intestine. Expressed at a lower level in the adrenal cortex, testis and stomach. Overexpressed in breast, renal and lung carcinomas.

序列相似性

Belongs to the NHER family.
Contains 4 PDZ (DHR) domains.

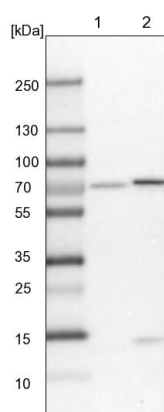
结构域

The PDZ 2 and 3 domains seem to be involved in the interaction with SLC26A3.
Interaction with the C-terminus of CFTR could be mediated through independent binding of PDZ 1, 3 and 4 domains.
The PDZ 1 and 3 domains seem to be involved in the interaction with SLC01A1.
The PDZ 1 domain interacts with BCR.

细胞定位

Cytoplasm. Membrane. Associated with peripheral membranes. Localizes to the apical compartment of proximal tubular cells and to sinusoidal liver membranes.

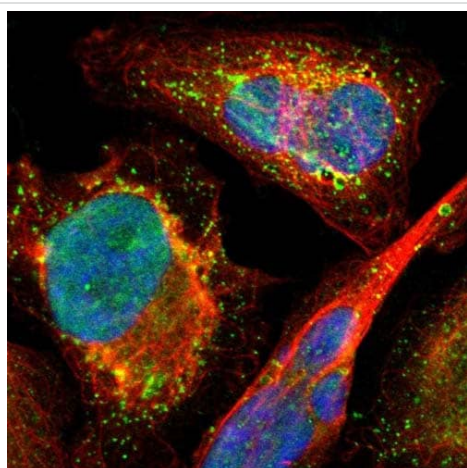
图片



Lane 1: Mouse liver tissue lysate

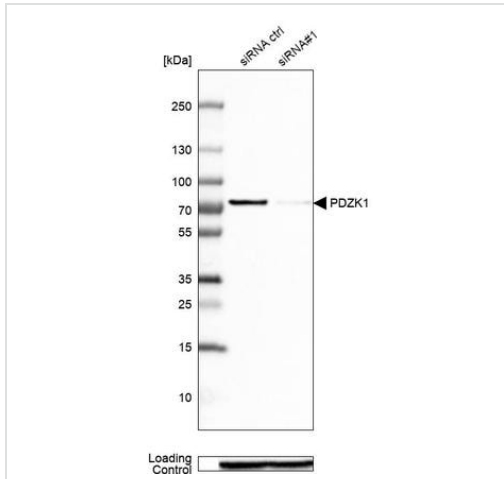
Lane 2: Rat liver tissue lysate

Western blot - Anti-PDZK1 antibody (ab121248)



Immunofluorescent staining of Human cell line U-2 OS shows positivity in nucleus but not nucleoli and vesicles. Recommended concentration of ab121248 1-4 $\mu\text{g/ml}$. Cells treated with PFA/Triton X-100.

Immunocytochemistry/ Immunofluorescence - Anti-PDZK1 antibody (ab121248)



Western blot - Anti-PDZK1 antibody (ab121248)

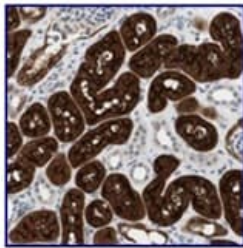
All lanes : Anti-PDZK1 antibody (ab121248)

Lane 1 : Caco-2 cells transfected with control siRNA

Lane 2 : Caco-2 cells transfected with target specific siRNA probe #1

Predicted band size: 57 kDa

Loading control: Anti-GAPDH.



Immunohistochemical staining of paraffin embedded Human kidney, using 1/150 ab121248, shows strong cytoplasmic positivity in cells in tubules.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PDZK1 antibody (ab121248)

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