abcam

Product datasheet

Anti-ATP1B1 antibody [M17-P5-F11] ab2873

★★★★★ 2 Abreviews 16 References 9 图像

概述

产品名称	Anti-ATP1B1抗体[M17-P5-F11]
描述	小鼠单克隆抗体[M17-P5-F11] to ATP1B1
宿主	Mouse
经测试应用	**适用于:** IHC-P, WB, ICC/IF, Flow Cyt
种属反应性	**与反应:** Mouse, Human **预测可用于:** Rabbit, Guinea pig, Chimpanzee, Cynomolgus monkey
免疫原	Full length native protein (purified) corresponding to Sheep ATP1B1. Purified lamb kidney sodium/potassium ATPase beta.
表位	This antibody recognizes an epitope between amino acid residues 195-199 of sheep sodium/potassium ATPase beta 1.
常规说明	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

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 or -80°C. Avoid freeze / thaw cycle.
存储溶液	Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 99% PBS
纯度	Protein A purified
克隆	单克隆
克隆编号	M17-P5-F11
同种型	IgG2a

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab2873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
IHC-P		1/200.
WB		1/1000 - 1/10000. Predicted molecular weight: 35 kDa.
ICC/IF	★★★★☆ (1)	1/100 - 1/1000.
Flow Cyt		1/100. **ab170191** - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.

靶标

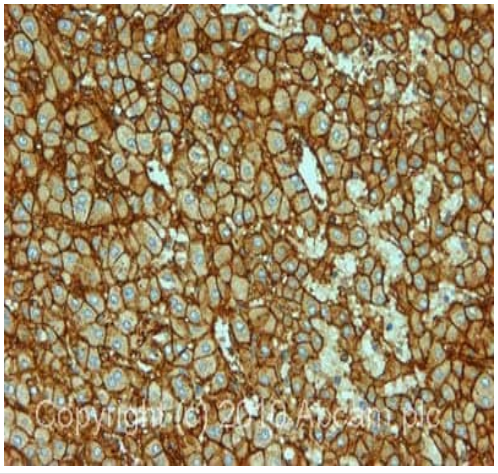
功能 This is the non-catalytic component of the active enzyme, which catalyzes the hydrolysis of ATP coupled with the exchange of Na(+) and K(+) ions across the plasma membrane. The beta subunit regulates, through assembly of alpha/beta heterodimers, the number of sodium pumps transported to the plasma membrane.

组织特异性 Found in most tissues.

序列相似性 Belongs to the X(+)/potassium ATPases subunit beta family.

细胞定位 Membrane.

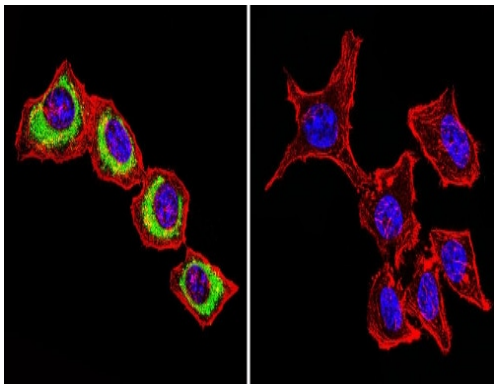
图片



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ATP1B1 antibody [M17-P5-F11] (ab2873)

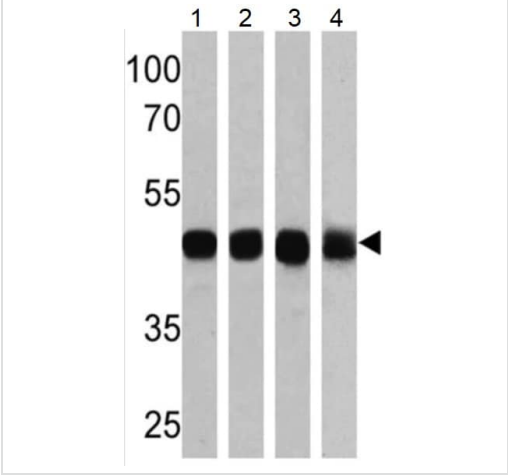
IHC image of ab2873 staining in human normal liver formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab2873, 1µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Immunocytochemistry/ Immunofluorescence - Anti-ATP1B1 antibody [M17-P5-F11] (ab2873)

Immunocytochemistry/Immunofluorescence analysis of ATP1B1 shows staining in HeLa cells. ATP1B1 staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were incubated without (control) or with ab2873 (1:200) overnight at 4°C, washed with PBS and incubated with a DyLight-488 conjugated goat anti-mouse secondary antibody. Images were taken at 60X magnification.



Western blot - Anti-ATP1B1 antibody [M17-P5-F11] (ab2873)

All lanes : Anti-ATP1B1 antibody [M17-P5-F11] (ab2873) at 1/5000 dilution

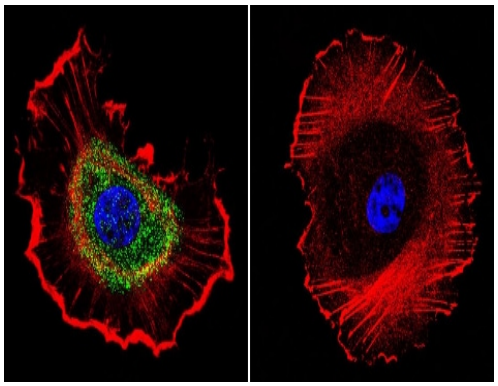
Lane 1 : Human brain lysates
Lane 2 : Human liver lysates
Lane 3 : Human kidney lysates
Lane 4 : Mouse kidney lysates

Lysates/proteins at 25 µg per lane.

Secondary
All lanes : HRP-conjugated secondary antibody

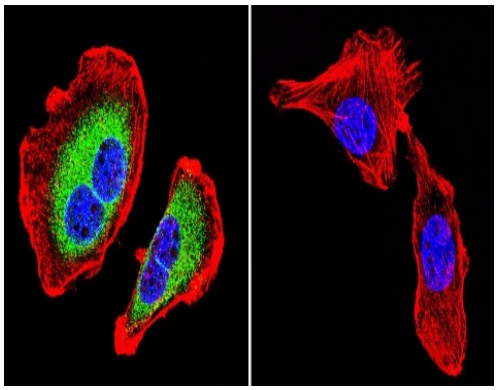
Predicted band size: 35 kDa

Chemiluminescent detection was performed using Pierce ECL Plus Western Blotting Substrate.



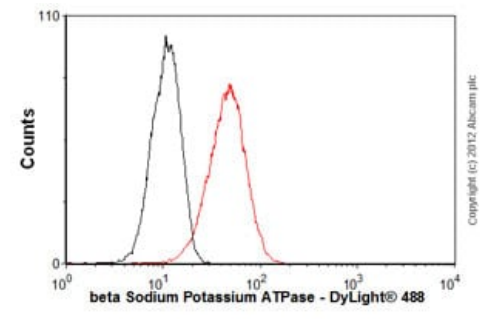
Immunocytochemistry/ Immunofluorescence - Anti-ATP1B1 antibody [M17-P5-F11] (ab2873)

Immunocytochemistry/Immunofluorescence analysis of ATP1B1 shows staining in MCF-7 cells. ATP1B1 staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were incubated without (control) or with ab2873 (1:200) overnight at 4°C, washed with PBS and incubated with a DyLight-488 conjugated goat anti-mouse secondary antibody. Images were taken at 60X magnification.



Immunocytochemistry/ Immunofluorescence - Anti-ATP1B1 antibody [M17-P5-F11] (ab2873)

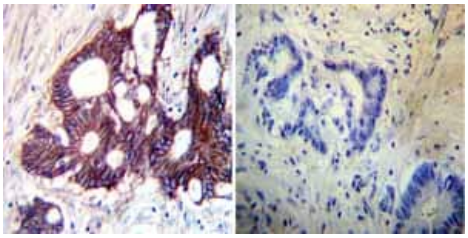
Immunocytochemistry/Immunofluorescence analysis of ATP1B1 shows staining in U251 cells. ATP1B1 staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were incubated without (control) or with ab2873 (1:200) overnight at 4°C, washed with PBS and incubated with a DyLight-488 conjugated goat anti-mouse secondary antibody. Images were taken at 60X magnification.



Flow Cytometry - Anti-ATP1B1 antibody [M17-P5-F11] (ab2873)

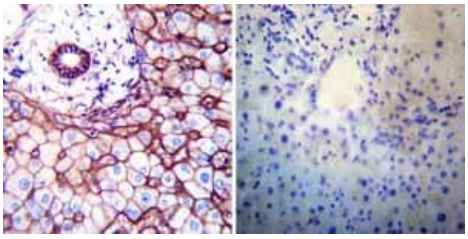
Overlay histogram showing HEK293 cells stained with ab2873 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab2873, 1/100 dilution) for 30 min at 22ºC. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (**ab96879**) at 1/500 dilution for 30 min at 22ºC. Isotype control antibody (black line) was mouse IgG2a [ICIGG2A] (**ab91361**, 1µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in HEK293 cells fixed with 80% methanol (5 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.

Please note that Abcam do not have any data for use of this antibody on non-fixed cells. We welcome any customer feedback.



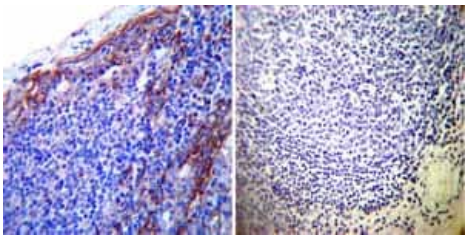
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ATP1B1 antibody [M17-P5-F11] (ab2873)

Immunohistochemistry was performed on both normal and cancer biopsies of deparaffinized Human colon carcinoma tissues. To expose target proteins heat induced antigen retrieval was performed using 10mM sodium citrate (pH6.0) buffer microwaved for 8-15 minutes. Following antigen retrieval tissues were blocked in 3% BSA-PBS for 30 minutes at room temperature. Tissues were then probed at a dilution of 1:200 with a mouse monoclonal antibody recognizing Sodium/Potassium ATPase beta ab2873 or without primary antibody (negative control) overnight at 4°C in a humidified chamber. Tissues were washed extensively with PBST and endogenous peroxidase activity was quenched with a peroxidase suppressor. Detection was performed using a biotin-conjugated secondary antibody and SA-HRP followed by colorimetric detection using DAB. Tissues were counterstained with hematoxylin and prepped for mounting.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ATP1B1 antibody [M17-P5-F11] (ab2873)

Immunohistochemistry was performed on both normal and cancer biopsies of deparaffinized Human liver tissue tissues. To expose target proteins heat induced antigen retrieval was performed using 10mM sodium citrate (pH6.0) buffer microwaved for 8-15 minutes. Following antigen retrieval tissues were blocked in 3% BSA-PBS for 30 minutes at room temperature. Tissues were then probed at a dilution of 1:200 with a mouse monoclonal antibody recognizing Sodium/Potassium ATPase beta ab2873 or without primary antibody (negative control) overnight at 4°C in a humidified chamber. Tissues were washed extensively with PBST and endogenous peroxidase activity was quenched with a peroxidase suppressor. Detection was performed using a biotin-conjugated secondary antibody and SA-HRP followed by colorimetric detection using DAB. Tissues were counterstained with hematoxylin and prepped for mounting.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ATP1B1 antibody [M17-P5-F11] (ab2873)

Immunohistochemistry was performed on both normal and cancer biopsies of deparaffinized Human tonsil tissue tissues. To expose target proteins heat induced antigen retrieval was performed using 10mM sodium citrate (pH6.0) buffer microwaved for 8-15 minutes. Following antigen retrieval tissues were blocked in 3% BSA-PBS for 30 minutes at room temperature. Tissues were then probed at a dilution of 1:200 with a mouse monoclonal antibody recognizing Sodium/Potassium ATPase beta ab2873 or without primary antibody (negative control) overnight at 4°C in a humidified chamber. Tissues were washed extensively with PBST and endogenous peroxidase activity was quenched with a peroxidase suppressor. Detection was performed using a biotin-conjugated secondary antibody and SA-HRP followed by colorimetric detection using DAB. Tissues were counterstained with hematoxylin and prepped for mounting.

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