

Anti-PMCA1 antibody [EPR12029] ab190355

敲除验证
重组
RabMAb

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概述

产品名称	Anti-PMCA1抗体[EPR12029]
描述	兔单克隆抗体[EPR12029] to PMCA1
宿主	Rabbit
经测试应用	适用于: WB, IHC-P
种属反应性	与反应: Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: THP-1, HeLa, Neuro-2a, U87-MG, HepG2, C6 cell lysates. IHC-P: Human stomach and Human transitional cell carcinoma of bladder tissues, mouse lung, mouse stomach, rat stomach.
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 long term. Avoid freeze / thaw cycle.
存储溶液	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA</p>
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR12029
同种型	IgG

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab190355于以下的经测试应用

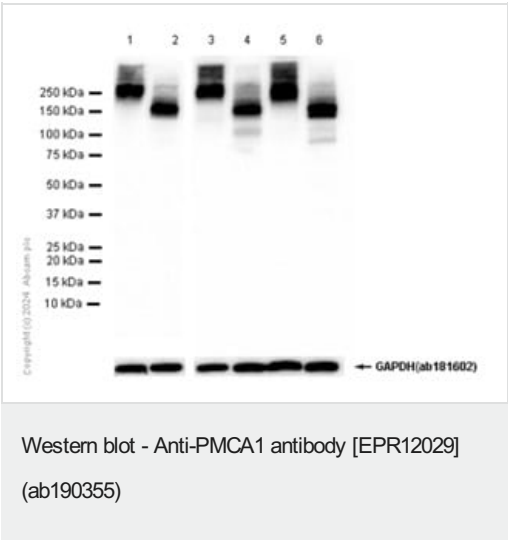
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		1/1000 - 1/10000. Detects a band of approximately 130-250 kDa (predicted molecular weight: 139 kDa).
IHC-P		1/250 - 1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

靶标

功能	This magnesium-dependent enzyme catalyzes the hydrolysis of ATP coupled with the transport of calcium out of the cell.
组织特异性	Isoform B is ubiquitously expressed. Isoform C is found in brain cortex, skeletal muscle and heart muscle. Isoform D has only been found in fetal skeletal muscle. Isoform K has been found in small intestine and liver.
序列相似性	Belongs to the cation transport ATPase (P-type) (TC 3.A.3) family. Type IIb subfamily.
结构域	The calmodulin-binding subdomain B is different in the different splice variants and shows pH dependent calmodulin binding properties in isoforms A, C, D and E.
细胞定位	Cell membrane.

图片



All lanes : Anti-PMCA1 antibody [EPR12029] (ab190355) at 1/5000 dilution

Lane 1 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate, boiled

Lane 2 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate, unboiled

Lane 3 : Neuro-2a (Mouse neuroblastoma neuroblast) whole cell lysate, boiled

Lane 4 : Neuro-2a (Mouse neuroblastoma neuroblast) whole cell lysate, unboiled

Lane 5 : C6 (Rat glial tumor glial cell) whole cell lysate, boiled

Lane 6 : C6 (Rat glial tumor glial cell) whole cell lysate, unboiled

Lysates/proteins at 20 µg per lane.

Secondary

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

Predicted band size: 139 kDa

Observed band size: 130-250 kDa

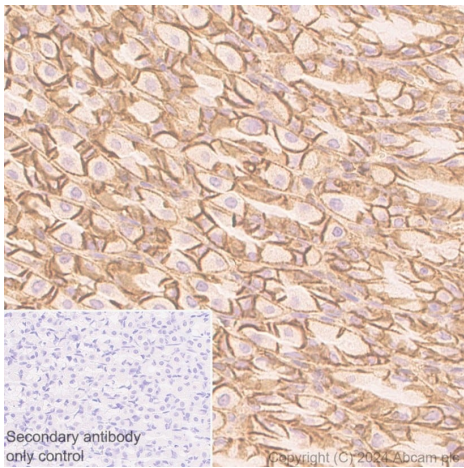
Blocking/Diluting buffer and concentration: 5% NFDM/TBST.

Exposure time:

Lanes 1, 2: 7 seconds

Lanes 3, 4, 5, 6: 3 seconds

ab181602 is used as a Loading Control at dilution 1/1000000.



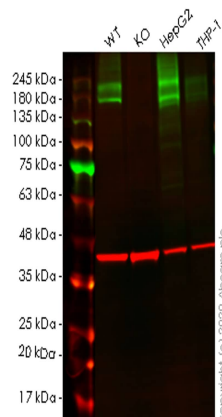
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PMCA1 antibody [EPR12029] (ab190355)

Immunohistochemical analysis of paraffin-embedded rat stomach tissue labelling PMCA1 with ab190355 at 1/2000 dilution, followed by ready-to-use secondary antibody Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) at dilution 1/1. Counterstained with Hematoxylin.

Performed heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

Positive staining mouse lung cancer.

The section was incubated with ab190355 for 10 mins at room temperature. The immunostaining staining was performed on a Leica Biosystems BOND[®] RX instrument.



Western blot - Anti-PMCA1 antibody [EPR12029] (ab190355)

All lanes : Anti-PMCA1 antibody [EPR12029] (ab190355) at 1/1000 dilution

Lane 1 : Wild-type HeLa cell lysate

Lane 2 : ATP2B1 knockout HeLa cell lysate

Lane 3 : HepG2 cell lysate

Lane 4 : THP-1 cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

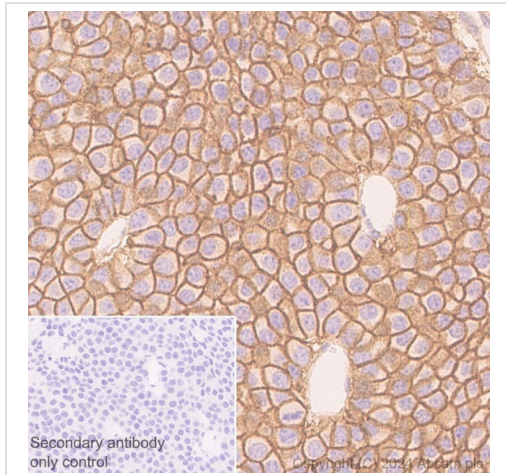
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) at 1/10000 dilution

Predicted band size: 139 kDa

Observed band size: 180-245 kDa

Lanes 1-4: Merged signal (red and green). Green - ab190355 observed at 180-245 kDa. Red - loading control [ab8245](#) observed at 36 kDa.

ab190355 Anti-PMCA1 antibody [EPR12029] was shown to specifically react with PMCA1 in wild-type HeLa cells. Loss of signal was observed when knockout cell line [ab265561](#) (knockout cell lysate [ab257365](#)) was used. Wild-type and PMCA1 knockout samples were subjected to SDS-PAGE. ab190355 and Anti-GAPDH antibody [6C5] - Loading Control ([ab8245](#)) were incubated at room temperature for 2.5 hours at 1 in 1000 dilution and 1 in 20000 dilution respectively. 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 in 20000 dilution for 1 hour at room temperature before imaging.



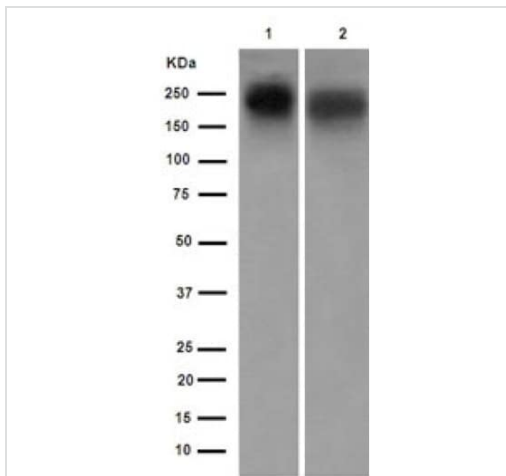
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PMCA1 antibody [EPR12029] (ab190355)

Immunohistochemical analysis of paraffin-embedded mouse lung cancer tissue labelling PMCA1 with ab190355 at 1/2000 dilution, followed by ready-to-use secondary antibody Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) at dilution 1/1. Counterstained with Hematoxylin.

Performed heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

Positive staining mouse lung cancer.

The section was incubated with ab190355 for 10 mins at room temperature. The immunostaining staining was performed on a Leica Biosystems BOND® RX instrument.



Western blot - Anti-PMCA1 antibody [EPR12029] (ab190355)

All lanes : Anti-PMCA1 antibody [EPR12029] (ab190355) at 1/2000 dilution

Lane 1 : U87-MG cell lysate

Lane 2 : HepG2 cell lysate

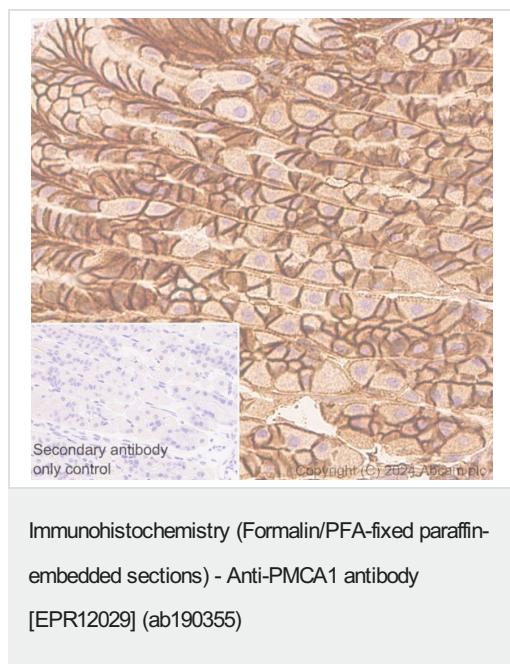
Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 139 kDa

Observed band size: 130-250 kDa

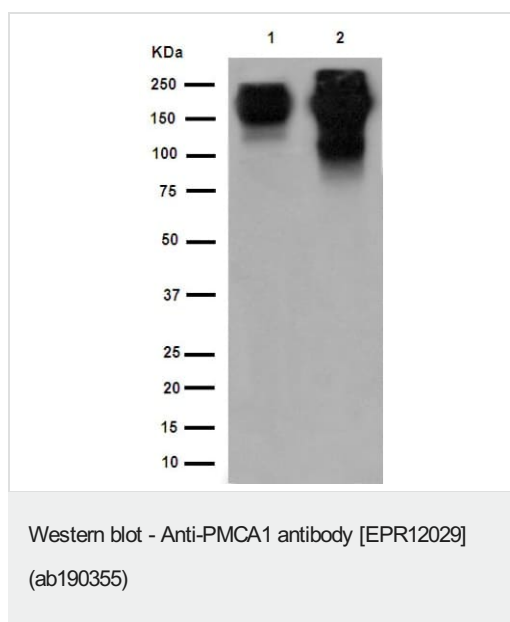


Immunohistochemical analysis of paraffin-embedded mouse stomach tissue labelling PMCA1 with ab190355 at 1/2000 dilution, followed by ready-to-use secondary antibody Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) at dilution 1/1. Counterstained with Hematoxylin.

Performed heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

Positive staining mouse stomach.

The section was incubated with ab190355 for 10 mins at room temperature. The immunostaining staining was performed on a Leica Biosystems BOND® RX instrument.



All lanes : Anti-PMCA1 antibody [EPR12029] (ab190355) at 1/2000 dilution

Lane 1 : HepG2 cell lysate

Lane 2 : Neuro-2a cell lysate

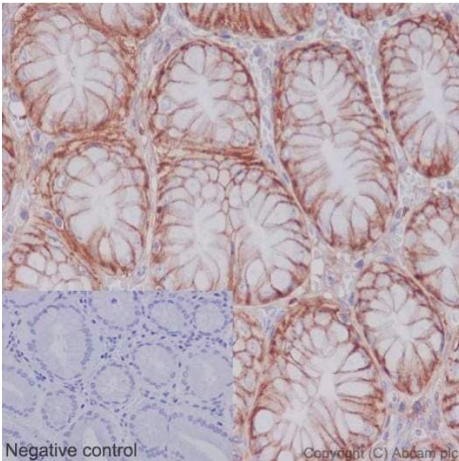
Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 139 kDa

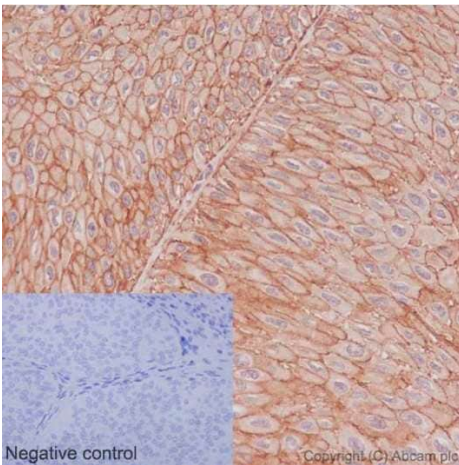
Observed band size: 130-250 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PMCA1 antibody
[EPR12029] (ab190355)

Immunohistochemical analysis of paraffin-embedded Human stomach tissue labeling PMCA1 with ab190355 at 1/500 dilution. A prediluted HRP Polymer for Rabbit IgG as secondary antibody. Counterstained with Hematoxylin. Negative control also shown.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PMCA1 antibody
[EPR12029] (ab190355)

Immunohistochemical analysis of paraffin-embedded Human transitional cell carcinoma of bladder tissue labeling PMCA1 with ab190355 at 1/500 dilution. A prediluted HRP Polymer for Rabbit IgG as secondary antibody. Counterstained with Hematoxylin. Negative control also shown.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-PMCA1 antibody [EPR12029] (ab190355)

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