

Anti-AKT1 + AKT2 + AKT3 antibody [EPR17671] ab185633

重组 RabMAb

11 References **11 图像**

概述

产品名称	Anti-AKT1 + AKT2 + AKT3抗体[EPR17671]
描述	兔单克隆抗体[EPR17671] to AKT1 + AKT2 + AKT3
宿主	Rabbit
经测试应用	适用于: Flow Cyt (Intra), IP, WB, IHC-P
种属反应性	与反应: Mouse, Rat, Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: AKT3 recombinant protein fragment (His-Tag®): aa351-479; AKT2 recombinant protein fragment (His-Tag®): aa282-481; AKT1 recombinant protein fragment (His-Tag®): aa281-480; A549 whole cell lysate; Human fetal brain and fetal kidney lysates; Mouse brain lysate; Rat brain and heart lysates. IHC-P: Human cerebral cortex, Human adenocarcinoma of colon, mouse cerebral cortex and rat kidney tissues. ICC/IF: HeLa cells. Flow Cyt (intra): A549 cells. IP: A549 whole cell extract.
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	EPR17671
同种型	IgG

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab185633于以下的经测试应用

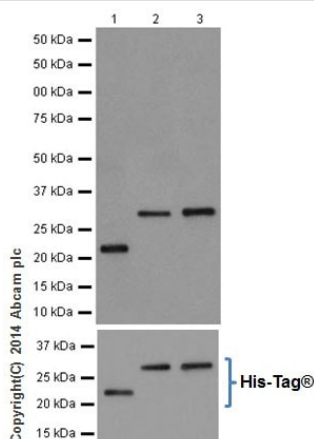
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
Flow Cyt (Intra)		1/50. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
IP		1/50.
WB		1/2000. Detects a band of approximately 56 kDa (predicted molecular weight: 56 kDa).
IHC-P		1/400. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

靶标

功能	IGF-1 leads to the activation of AKT3, which may play a role in regulating cell survival. Capable of phosphorylating several known proteins. Truncated isoform 2/PKB gamma 1 without the second serine phosphorylation site could still be stimulated but to a lesser extent.
组织特异性	In adult tissues, it is highly expressed in brain, lung and kidney, but weakly in heart, testis and liver. In fetal tissues, it is highly expressed in heart, liver and brain and not at all in kidney.
序列相似性	Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. RAC subfamily. Contains 1 AGC-kinase C-terminal domain. Contains 1 PH domain. Contains 1 protein kinase domain.
结构域	Binding of the PH domain to the phosphatidylinositol 3-kinase alpha (PI(3)K) results in its targeting to the plasma membrane.
翻译后修饰	Phosphorylation on Thr-305 and Ser-472 is required for full activity (By similarity). Phosphorylated upon DNA damage, probably by ATM or ATR. Ubiquitinated. When fully phosphorylated and translocated into the nucleus, undergoes 'Lys-48'-polyubiquitination catalyzed by TTC3, leading to its degradation by the proteasome.
细胞定位	Cytoplasm. Membrane. Membrane-associated after cell stimulation leading to its translocation.

图片



Western blot - Anti-AKT1 + AKT2 + AKT3 antibody [EPR17671] (ab185633)

All lanes : Anti-AKT1 + AKT2 + AKT3 antibody [EPR17671] (ab185633) at 1/5000 dilution

Lane 1 : AKT3 recombinant protein fragment (His-Tag®): aa351-479

Lane 2 : AKT2 recombinant protein fragment (His-Tag®): aa282-481

Lane 3 : AKT1 recombinant protein fragment (His-Tag®): aa281-480

Lysates/proteins at 0.01 µg per lane.

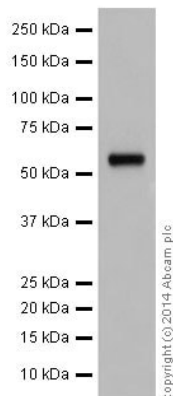
Secondary

All lanes : Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

Predicted band size: 56 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.

The bottom panel is probed with an anti-His tag antibody.



Western blot - Anti-AKT1 + AKT2 + AKT3 antibody [EPR17671] (ab185633)

Anti-AKT1 + AKT2 + AKT3 antibody [EPR17671] (ab185633) at 1/2000 dilution + A549 (Human lung carcinoma) whole cell lysates at 20 µg

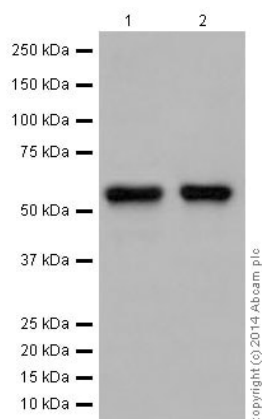
Secondary

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

Predicted band size: 56 kDa

Observed band size: 56 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-AKT1 + AKT2 + AKT3 antibody [EPR17671] (ab185633)

All lanes : Anti-AKT1 + AKT2 + AKT3 antibody [EPR17671] (ab185633) at 1/2000 dilution

Lane 1 : Human fetal brain lysates

Lane 2 : Human fetal kidney lysates

Lysates/proteins at 10 µg per lane.

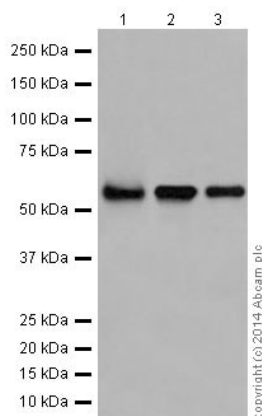
Secondary

All lanes : Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

Predicted band size: 56 kDa

Observed band size: 56 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-AKT1 + AKT2 + AKT3 antibody [EPR17671] (ab185633)

All lanes : Anti-AKT1 + AKT2 + AKT3 antibody [EPR17671] (ab185633) at 1/2000 dilution

Lane 1 : Mouse brain lysates

Lane 2 : Rat brain lysates

Lane 3 : Rat heart lysates

Lysates/proteins at 10 µg per lane.

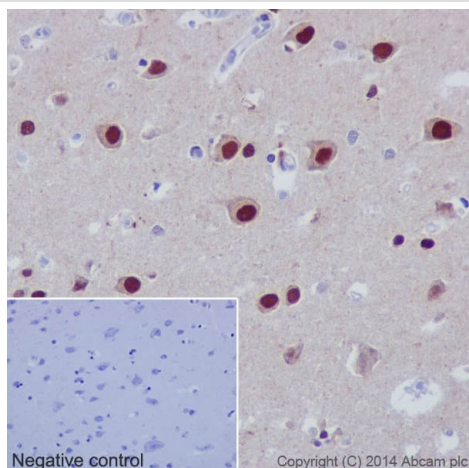
Secondary

All lanes : Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

Predicted band size: 56 kDa

Observed band size: 56 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.

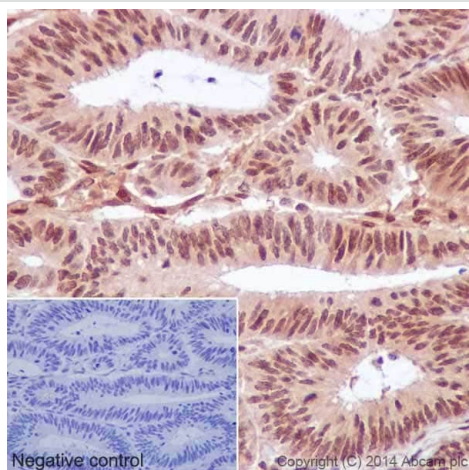


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-AKT1 + AKT2 + AKT3 antibody [EPR17671] (ab185633)

Immunohistochemical analysis of paraffin-embedded Human cerebral cortex tissue labeling AKT1 + AKT2 + AKT3 with ab185633 at 1/400 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) secondary antibody at 1/500 dilution. Nuclear and weak cytoplasmic staining on neurons of the Human cerebral cortex is observed. Counter stained with Hematoxylin.

Negative control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution.

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

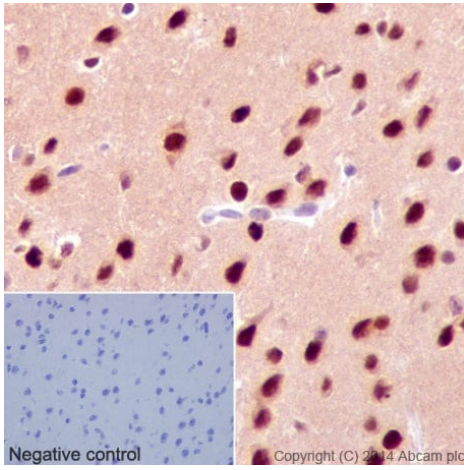


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-AKT1 + AKT2 + AKT3 antibody [EPR17671] (ab185633)

Immunohistochemical analysis of paraffin-embedded Human adenocarcinoma of colon tissue labeling AKT1 + AKT2 + AKT3 with ab185633 at 1/400 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) secondary antibody at 1/500 dilution. Nuclear and weak cytoplasmic staining on Human adenocarcinoma of colon is observed. Counter stained with Hematoxylin.

Negative control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution.

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

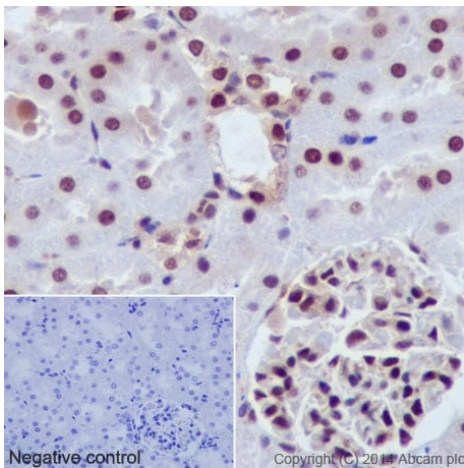


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-AKT1 + AKT2 + AKT3 antibody [EPR17671] (ab185633)

Immunohistochemical analysis of paraffin-embedded Mouse cerebral cortex tissue labeling AKT1 + AKT2 + AKT3 with ab185633 at 1/400 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) secondary antibody at 1/500 dilution. Nuclear and weak cytoplasmic staining on neurons of the mouse cerebral cortex is observed. Counter stained with Hematoxylin.

Negative control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution.

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

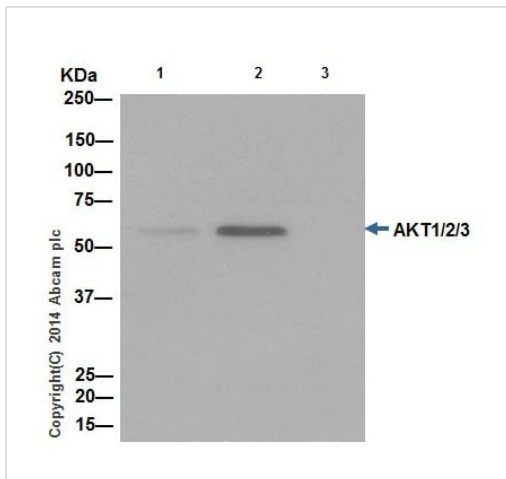


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-AKT1 + AKT2 + AKT3 antibody [EPR17671] (ab185633)

Immunohistochemical analysis of paraffin-embedded Rat kidney tissue labeling AKT1 + AKT2 + AKT3 with ab185633 at 1/400 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) secondary antibody at 1/500 dilution. Nuclear and weak cytoplasmic staining on rat kidney is observed. Counter stained with Hematoxylin.

Negative control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution.

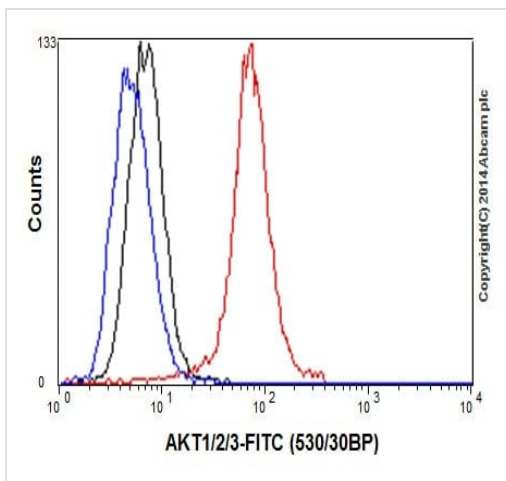
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunoprecipitation - Anti-AKT1 + AKT2 + AKT3 antibody [EPR17671] (ab185633)

AKT1 + AKT2 + AKT3 was immunoprecipitated from 1mg of A549 (Human lung carcinoma) whole cell extract with ab185633 at 1/50 dilution. Western blot was performed from the immunoprecipitate using ab185633 at 1/1000 dilution. Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG, was used as secondary antibody at 1/1500 dilution.





Lane 1: A549 whole cell extract 10 µg (Input). Lane 2: ab185633 IP in A549 whole cell extract. Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab185633 in A549 whole cell extract. Blocking and dilution buffer and concentration: 5% NFDm/TBST.



Flow Cytometry (Intracellular) - Anti-AKT1 + AKT2 + AKT3 antibody [EPR17671] (ab185633)

Intracellular flow cytometric analysis of 2% paraformaldehyde-fixed A549 (Human lung carcinoma) cells labeling AKT1 + AKT2 + AKT3 with ab185633 at 1/50 dilution (red) compared with a rabbit monoclonal IgG isotype control (black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody; blue). Goat anti rabbit IgG (FITC) at 1/150 dilution was used as the secondary antibody.

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-AKT1 + AKT2 + AKT3 antibody [EPR17671] (ab185633)

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