

Anti-RSK4 antibody [EP1982Y] ab76117

敲除验证
重组
RabMAb

[7 References](#)
[11 图像](#)

概述

产品名称	Anti-RSK4抗体[EP1982Y]
描述	兔单克隆抗体[EP1982Y] to RSK4
宿主	Rabbit
经测试应用	适用于: Flow Cyt (Intra), WB, ICC/IF, IHC-P
种属反应性	与反应: Mouse, Rat, Human
免疫原	Synthetic peptide within Human RSK4 aa 1-100 (N terminal). The exact sequence is proprietary. Database link: Q9UK32
阳性对照	SH-SY5Y cell lysate. Human brain glioma tissue. SH-Sy5y cells.
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> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</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. Avoid freeze / thaw cycle.
存储溶液	<p>pH: 7.20</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 EP1982Y
同种型 IgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab76117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)		1/25 - 1/70. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/250 - 1/1000. Detects a band of approximately 90 kDa (predicted molecular weight: 84 kDa).
ICC/IF		1/100 - 1/1000.
IHC-P		1/50 - 1/250. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See <u>IHC antigen retrieval protocols</u> .

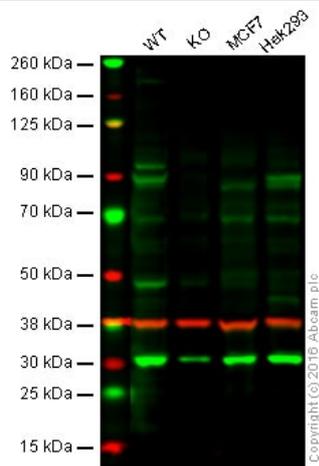
靶标

功能 Serine/threonine kinase that may play a role in mediating the growth-factor and stress induced activation of the transcription factor CREB.

序列相似性 Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. S6 kinase subfamily.
Contains 1 AGC-kinase C-terminal domain.
Contains 2 protein kinase domains.

翻译后修饰 Autophosphorylated on Ser-389, as part of the activation process.

图片



Western blot - Anti-RSK4 antibody [EP1982Y] (ab76117)

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

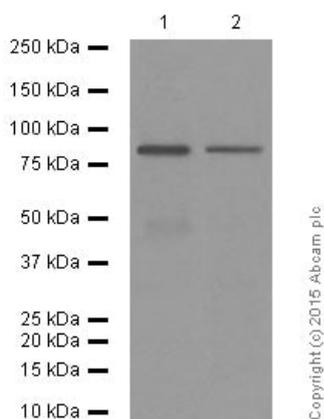
Lane 2: RSK4 knockout HAP1 cell lysate (40 µg)

Lane 3: MCF7 cell lysate (20 µg)

Lane 4: HEK293 cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab76117 observed at 90 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab76117 was shown to recognize RSK4 when RSK4 knockout samples were used, along with additional cross-reactive bands. Wild-type and RSK4 knockout samples were subjected to SDS-PAGE. Ab76117 and **ab8245** (loading control to GAPDH) were diluted at 1/250 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-RSK4 antibody [EP1982Y] (ab76117)

All lanes : Anti-RSK4 antibody [EP1982Y] (ab76117) at 1/1000 dilution (purified)

Lane 1 : SH-SY5Y cell lysate

Lane 2 : Caco-2 cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

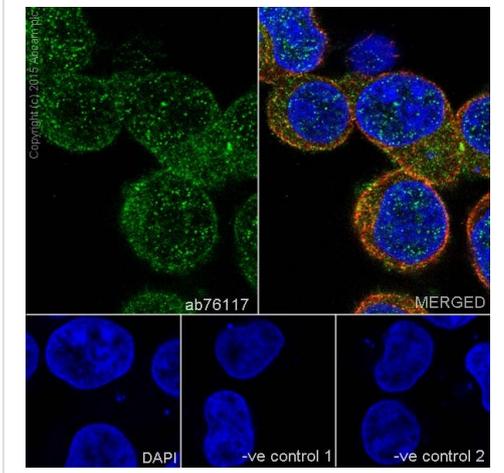
All lanes : HRP goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 84 kDa

Observed band size: 90 kDa

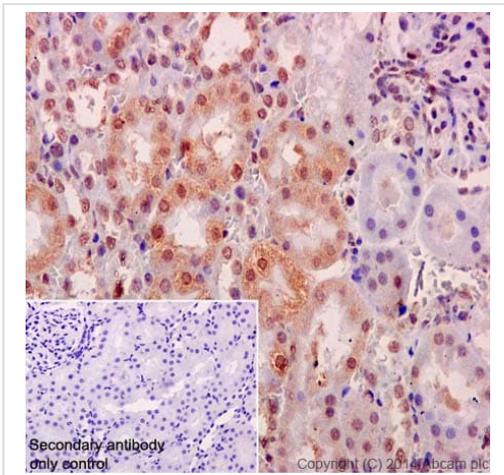
Blocking buffer: 5% NFDm/TBST

Dilution buffer: 5% NFDm/TBST



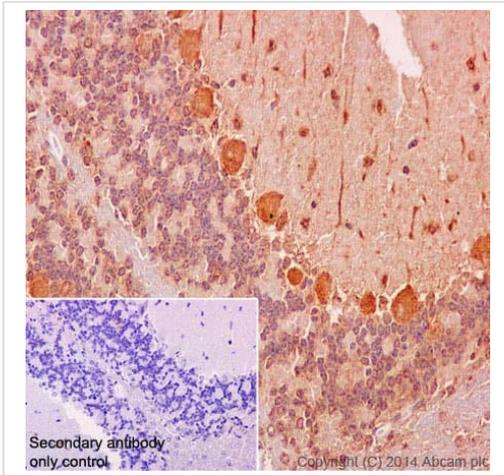
Immunocytochemistry/ Immunofluorescence - Anti-RSK4 antibody [EP1982Y] (ab76117)

Immunofluorescence staining of HEK293 cells with purified ab76117 at a working dilution of 1/1000, counter-stained with DAPI. The secondary antibody was Alexa Fluor[®] 488 goat anti-rabbit (**ab150077**), used at a dilution of 1/1000. **ab7291**, a mouse anti-tubulin antibody (1/1000), was used to stain tubulin along with **ab150120** (Alexa Fluor[®] 594 goat anti-mouse, 1/1000), shown in the top right hand panel. The cells were fixed in 4% PFA and permeabilized using 0.1% Triton X 100. The negative controls are shown in bottom middle and right hand panels - for negative control 1, purified ab76117 was used at a dilution of 1/500 followed by an Alexa Fluor[®] 594 goat anti-mouse antibody (**ab150120**) at a dilution of 1/500. For negative control 2, **ab7291** (mouse anti-tubulin) was used at a dilution of 1/500 followed by an Alexa Fluor[®] 488 goat anti-rabbit antibody (**ab150077**) at a dilution of 1/400.



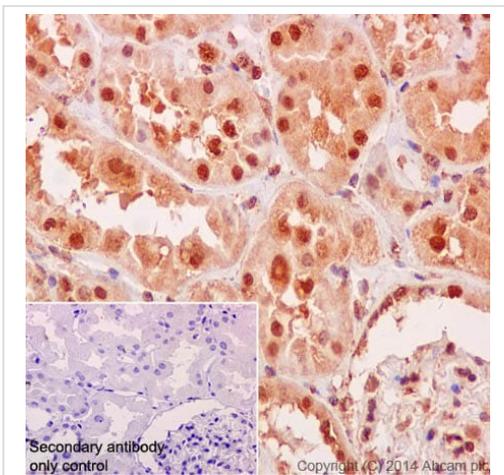
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RSK4 antibody [EP1982Y] (ab76117)

Immunohistochemical staining of paraffin embedded rat kidney with purified ab76117 at a working dilution of 1/250. The secondary antibody used is HRP goat anti-rabbit IgG H&L (**ab97051**) at 1/500. The sample is counter-stained with hematoxylin. Antigen retrieval was performed using Tris-EDTA buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.



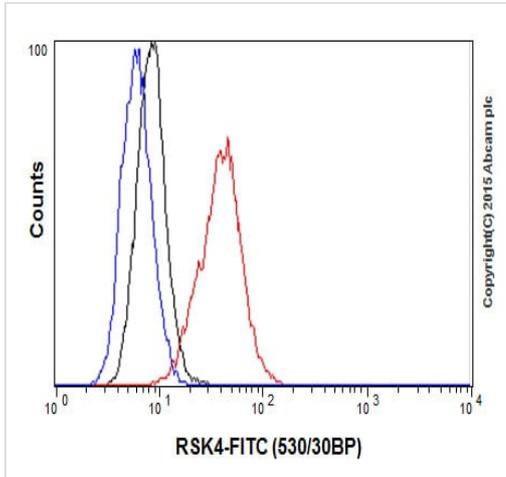
Immunohistochemical staining of paraffin embedded mouse cerebral cortex with purified ab76117 at a working dilution of 1/250. The secondary antibody used is HRP goat anti-rabbit IgG H&L (**ab97051**) at 1/500. The sample is counter-stained with hematoxylin. Antigen retrieval was performed using Tris-EDTA buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RSK4 antibody [EP1982Y] (ab76117)



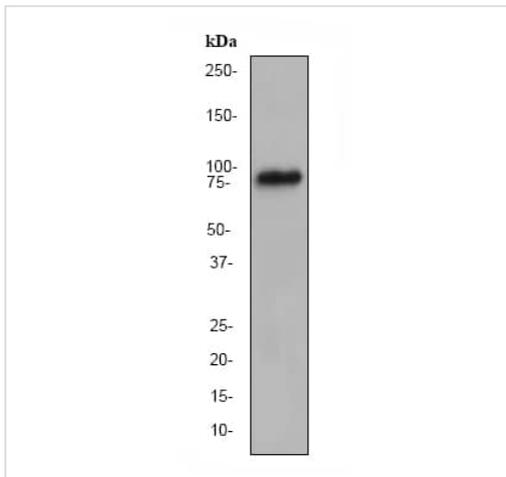
Immunohistochemical staining of paraffin embedded human kidney with purified ab76117 at a working dilution of 1/250. The secondary antibody used is HRP goat anti-rabbit IgG H&L (**ab97051**) at 1/500. The sample is counter-stained with hematoxylin. Antigen retrieval was performed using Tris-EDTA buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RSK4 antibody [EP1982Y] (ab76117)



Flow Cytometry (Intracellular) - Anti-RSK4 antibody [EP1982Y] (ab76117)

Overlay histogram showing Neuro-2a cells fixed in 2% PFA and stained with purified ab76117 at a dilution of 1 in 70 (red line). The secondary antibody used was FITC goat anti-rabbit at a dilution of 1 in 500. Rabbit monoclonal IgG was used as an isotype control (black line) and cells incubated in the absence of both primary and secondary antibody were used as a negative control (blue line).



Western blot - Anti-RSK4 antibody [EP1982Y] (ab76117)

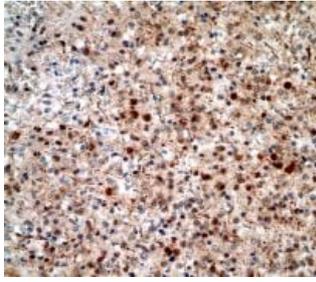
Anti-RSK4 antibody [EP1982Y] (ab76117) at 1/500 dilution (unpurified) + SH-SY5Y cell lysate at 10 µg

Secondary

HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 84 kDa

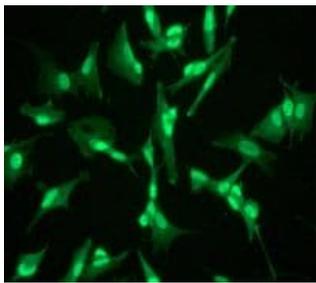
Observed band size: 90 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RSK4 antibody [EP1982Y] (ab76117)

Unpurified ab76117, at 1/50 dilution, staining RSK4 in paraffin-embedded human brain glioma tissue.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-RSK4 antibody [EP1982Y] (ab76117)

Immunofluorescent staining of SH-Sy5y cells using unpurified ab76117 at 1/100 dilution.

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-RSK4 antibody [EP1982Y] (ab76117)

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