

Product datasheet

Anti-RSK1 p90 (phospho S380) antibody [E239] ab32203

Recombinant RabMAb

[13 References](#) [7 Images](#)

Overview

Product name	Anti-RSK1 p90 (phospho S380) antibody [E239]
Description	Rabbit monoclonal [E239] to RSK1 p90 (phospho S380)
Host species	Rabbit
Specificity	The antibody only detects RSK1 phosphorylated on Serine 380.
Tested applications	Suitable for: WB, ICC/IF, IP, Dot blot
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	IP: C6 whole cell lysate treated with 100nM Calyculin A for 30 minutes. ICC/IF: A431 cells treated with 100ng/ml EGF for 10 minutes. WB: HeLa starved overnight then treated with 200nM TPA for 4 hours whole cell lysate. PC-12 (Rat adrenal gland pheochromocytoma) treated with 200ng/ml NGF for 24 hours whole cell lysate. NIH/3T3 (Mouse embryonic fibroblast) starved for 24 hours then treated with 100nM Calyculin A for 30 minutes whole cell lysate.
General notes	<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>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal

Clone number E239
Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab32203 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/10000. Detects a band of approximately 90 kDa (predicted molecular weight: 83 kDa).
ICC/IF		1/50. For the unpurified format use at 1/250 - 1/500 dilution
IP		1/20. For the unpurified format use at 1/80 dilution
Dot blot		1/1000.

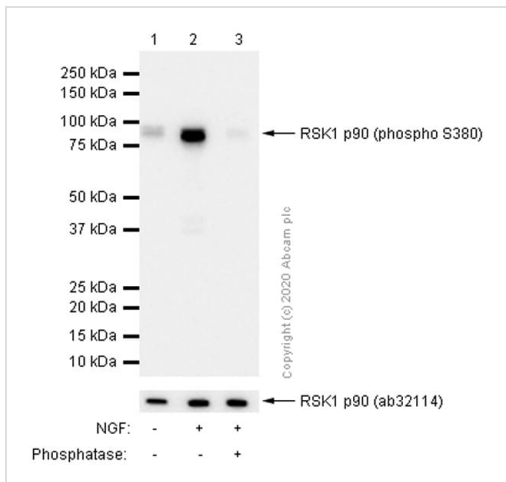
Target

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

Sequence similarities 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.

Post-translational modifications Autophosphorylated on Ser-380, as part of the activation process.

Images



Western blot - Anti-RSK1 p90 (phospho S380) antibody [E239] (ab32203)

All lanes : Anti-RSK1 p90 (phospho S380) antibody [E239] (ab32203) at 1/1000 dilution

Lane 1 : Untreated PC-12 (Rat adrenal gland pheochromocytoma) whole cell lysate

Lane 2 : PC-12 (Rat adrenal gland pheochromocytoma) treated with 200ng/ml NGF for 24 hours whole cell lysate

Lane 3 : PC-12 (Rat adrenal gland pheochromocytoma) treated with 200ng/ml NGF for 24 hours whole cell lysate, then the membrane treated with Alkaline Phosphatase for 1 hour

Lysates/proteins at 15 µg per lane.

Secondary

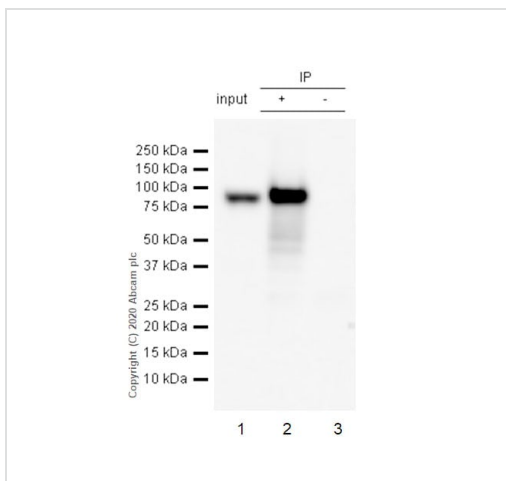
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 83 kDa

Observed band size: 90 kDa

Blocking and dilution buffer: 5% NFDm/TBST.

Image produced using the purified version.



Immunoprecipitation - Anti-RSK1 p90 (phospho S380) antibody [E239] (ab32203)

Purified ab32203 at 1:20 dilution (0.8µg) immunoprecipitating RSK1 p90 in C6 whole cell lysate treated with 100nM Calyculin A for 30 minutes.

Lane 1 (input): C6 (Rat glial tumor glial cell) whole cell lysate treated with 100nM Calyculin A for 30 minutes 10µg.

Lane 2 (+): ab32203 + C6 whole cell lysate treated with 100nM Calyculin A for 30 minutes.

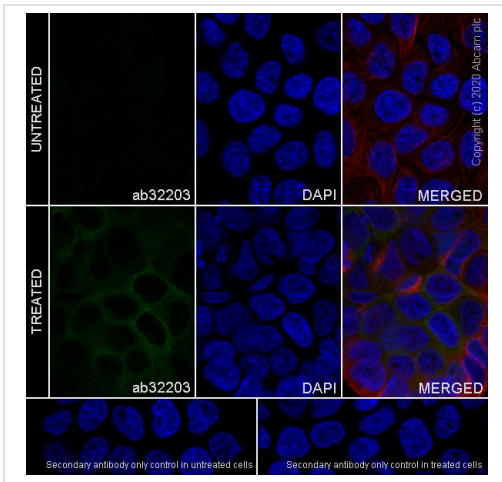
Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab32203 in C6 whole cell lysate treated with 100nM Calyculin A for 30 minutes.

VeriBlot for IP Detection Reagent (HRP)(**ab131366**) (1:1000 dilution) was used for Western blotting.

Blocking Buffer and concentration: 5% NFDm/TBST.

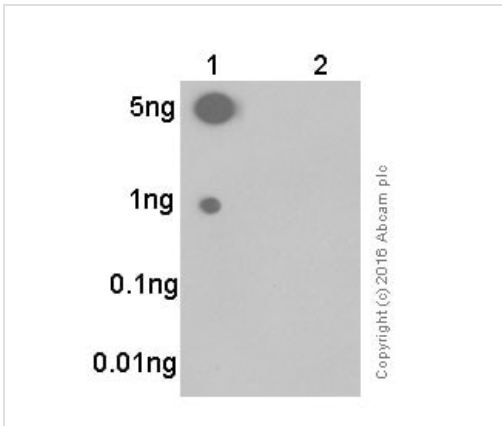
Diluting buffer and concentration: 5% NFDm/TBST.

Observed band size: 90 kDa



Immunocytochemistry/ Immunofluorescence - Anti-
RSK1 p90 (phospho S380) antibody [E239]
(ab32203)

Immunocytochemistry analysis of A431 (Human epidermoid carcinoma epithelial cell) treated with 100ng/ml EGF for 10 minutes cells labeling RSK1 p90 with Purified ab32203 at 1:50 dilution (2.6 µg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1:200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)) was used as the secondary antibody at 1:1000 (2 µg/ml) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



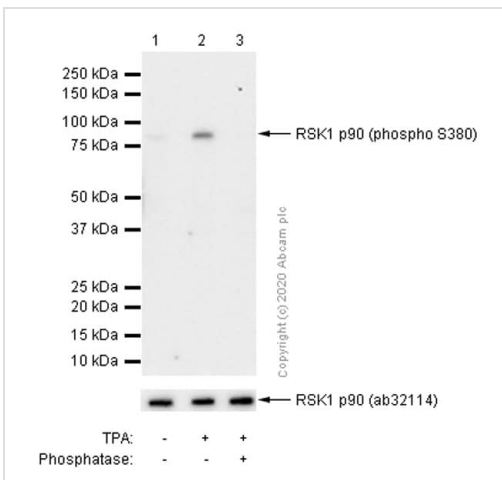
Dot Blot - Anti-RSK1 p90 (phospho S380) antibody [E239] (ab32203)

This data was produced using the unpurified format.

Dot blot analysis of RSK1 p90 (phospho S380) phospho peptide (Lane 1) and RSK1 p90 non-phospho peptide (Lane 2) labeling RSK1 p90 (phospho S380) with ab32203 at a dilution of 1/1000. [ab97051](#) (Peroxidase conjugated goat anti-rabbit IgG) (H+L) at 1/100 000 was used as the secondary antibody.

Blocking and diluting buffer: 5% NFDM/TBST.

Exposure time: 3 minutes.



Western blot - Anti-RSK1 p90 (phospho S380) antibody [E239] (ab32203)

All lanes : Anti-RSK1 p90 (phospho S380) antibody [E239] (ab32203) at 1/1000 dilution

Lane 1 : HeLa (Human cervix adenocarcinoma epithelial cell) starved overnight whole cell lysate

Lane 2 : HeLa (Human cervix adenocarcinoma epithelial cell) starved overnight then treated with 200nM TPA for 4 hours whole cell lysate

Lane 3 : HeLa (Human cervix adenocarcinoma epithelial cell) starved overnight then treated with 200nM TPA for 4 hours whole cell lysate, then the membrane treated with Alkaline Phosphatase for 1 hour

Lysates/proteins at 15 µg per lane.

Secondary

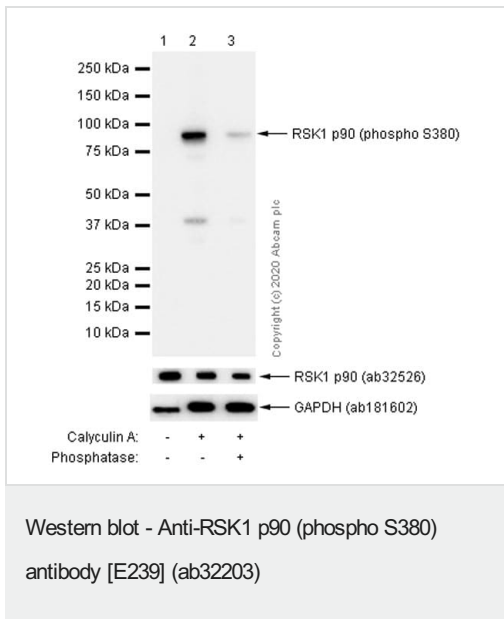
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 83 kDa

Observed band size: 90 kDa

Blocking and dilution buffer: 5% NFDm/TBST.

Image produced using the purified version.



All lanes : Anti-RSK1 p90 (phospho S380) antibody [E239] (ab32203) at 1/1000 dilution

Lane 1 : NIH/3T3 (Mouse embryonic fibroblast) starved for 24 hours whole cell lysate

Lane 2 : NIH/3T3 (Mouse embryonic fibroblast) starved for 24 hours then treated with 100nM Calyculin A for 30 minutes whole cell lysate

Lane 3 : NIH/3T3 (Mouse embryonic fibroblast) starved for 24 hours then treated with 100nM Calyculin A for 30 minutes whole cell lysate, and then the membrane treated with Alkaline Phosphatase for 1 hour

Lysates/proteins at 15 µg per lane.

Secondary

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

Predicted band size: 83 kDa

Observed band size: 90 kDa

Blocking and dilution buffer: 5% NFDm/TBST.

Image produced using the purified version.

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-RSK1 p90 (phospho S380) antibody [E239]
(ab32203)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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