


## Product datasheet

### Anti-RSK1 p90 (phospho T359) antibody [E238] ab32413

Recombinant RabMAb

★★★★★ **8 Abreviews** **22 References** [7 Images](#)

#### Overview

<b>Product name</b>	Anti-RSK1 p90 (phospho T359) antibody [E238]
<b>Description</b>	Rabbit monoclonal [E238] to RSK1 p90 (phospho T359)
<b>Host species</b>	Rabbit
<b>Specificity</b>	This antibody is specific for human RSK1 p90 phosphorylated on Threonine 359. 80% identities with RSK3 p90 (pT365+pS369), 75% with RSK2 p90 (pT356+pS360) and 74% identities with RSK6 p90 (pT368+pS372)
<b>Tested applications</b>	<b>Suitable for:</b> ELISA, WB, IHC-P, IP, Dot blot <b>Unsuitable for:</b> Flow Cyt or ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human <b>Predicted to work with:</b> Rat 
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: A431 and NIH/3T3 cell lysates. IHC-P: Human cervical carcinoma tissue. IP: NIH/3T3 cell lysate
<b>General notes</b>	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> For more information <a href="#">see here</a> . Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> .

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 49% PBS, 50% Glycerol (glycerin, glycerine), 0.05% BSA
<b>Purity</b>	Protein A purified

<b>Clonality</b>	Monoclonal
<b>Clone number</b>	E238
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab32413 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

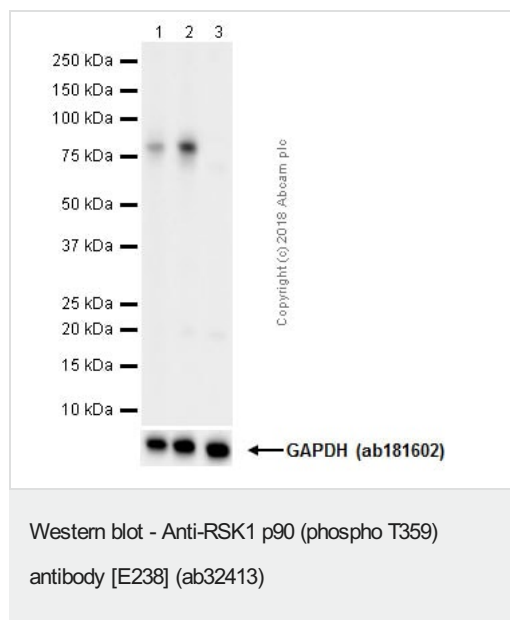
Application	Abreviews	Notes
<b>ELISA</b>		Use a concentration of 0 - 1 µg/ml.
<b>WB</b>	★★★★★ (5)	1/1000 - 1/10000. Detects a band of approximately 90 kDa (predicted molecular weight: 90 kDa).
<b>IHC-P</b>	★★★★★ (2)	Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
<b>IP</b>		1/100.
<b>Dot blot</b>		1/1000.

**Application notes** Is unsuitable for Flow Cyt or ICC/IF.

## Target

<b>Function</b>	Serine/threonine kinase that may play a role in mediating the growth-factor and stress induced activation of the transcription factor CREB.
<b>Sequence similarities</b>	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.
<b>Post-translational modifications</b>	Autophosphorylated on Ser-380, as part of the activation process.

## Images



**All lanes :** Anti-RSK1 p90 (phospho T359) antibody [E238] (ab32413) at 1/1000 dilution (purified)

**Lane 1 :** NIH/3T3 (mouse embryonic fibroblast) grown in serum free media for 4 hour swhole cell lysate

**Lane 2 :** NIH/3T3 grown in serum free media for 4 hours, then treated with 20% FBS for 30minutes whole cell lysate

**Lane 3 :** NIH/3T3 grown in serum free media for 4 hours, then treated with 20% FBS for 30 minutes whole cell lysate. Then the membrane was incubated with alkaline phosphatase

Lysates/proteins at 10 µg per lane.

### Secondary

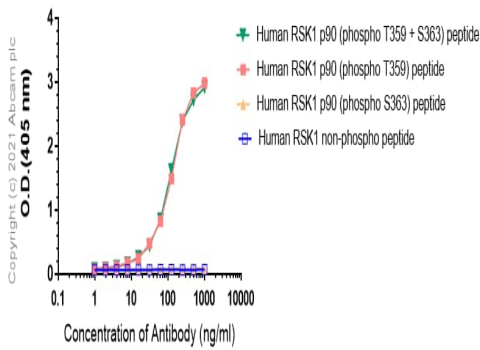
**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

**Predicted band size:** 90 kDa

**Observed band size:** 90 kDa

Blocking/Diluting Buffer and concentration 5% NFDm/TBST

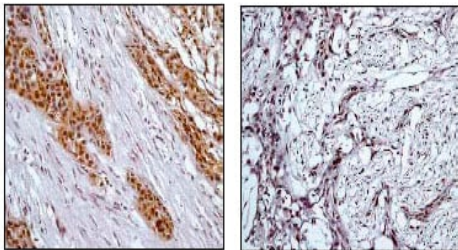
Indirect ELISA antibody dose-response curve  
antigen at 100 ng/ml



ELISA - Anti-RSK1 p90 (phospho T359) antibody  
[E238] (ab32413)

ELISA analysis using ab32413 at a range of 0-1000 ng/ml followed by a Alkaline Phosphatase-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L) at 1/2500 dilution. Antigen concentration: 100 ng/ml.

Antigens: Human RSK1 p90 (phospho T359 + S363) peptide, Human RSK1 p90 (phospho T359) peptide, Human RSK1 p90 (phospho S363) peptide, Human RSK1 non-phospho peptide.



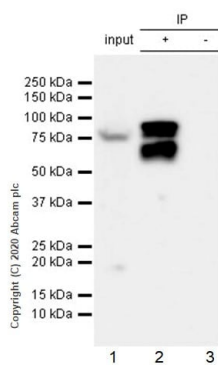
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RSK1 p90 (phospho T359) antibody [E238] (ab32413)

Ab32413, at a 1/100 dilution, staining RSK1 p90 in paraffin embedded human cervical carcinoma tissue by Immunohistochemistry.

Left image : Untreated.

Right image : Treated with Phosphatase.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunoprecipitation - Anti-RSK1 p90 (phospho T359) antibody [E238] (ab32413)

Purified ab32413 at 1/100 dilution (2µg) immunoprecipitating RSK1 p90 in NIH/3T3 whole cell lysate.

Lane 1 (input): NIH/3T3 (Mouse embryonic fibroblast) serum starved for 4h, then treated with 20% FBS for 30min whole cell lysate 10µg

Lane 2 (+): ab32413 + NIH/3T3 whole cell lysate.

Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of **ab171376** in NIH/3T3 whole cell lysate.

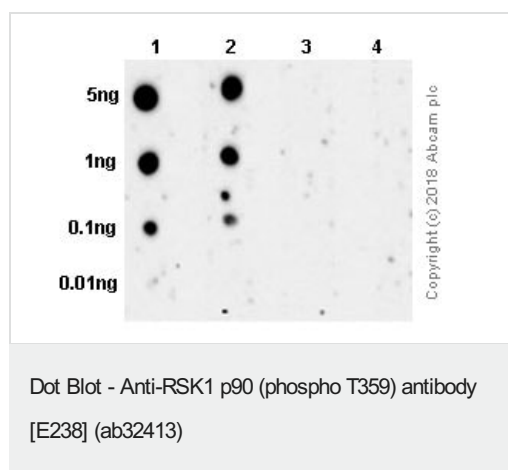
VeriBlot for IP Detection Reagent (HRP) (**ab131366**) (1/1000 dilution) was used for Western blotting.

Blocking Buffer and concentration: 5% NFDm/TBST.

Diluting buffer and concentration: 5% NFDm/TBST.

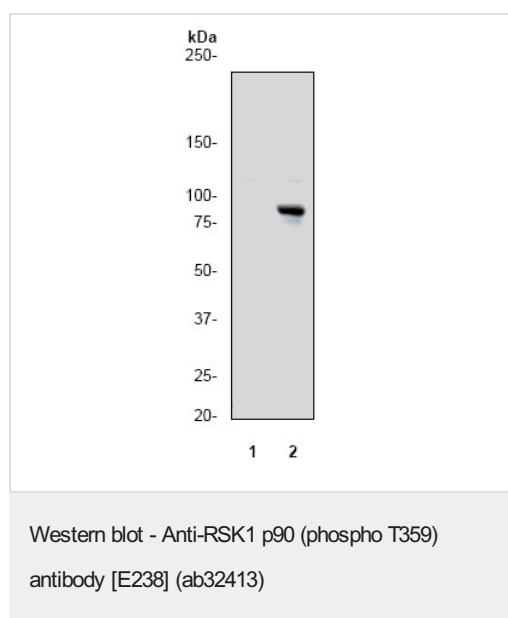
Observed band size: 90 kDa

Lower bands could be cleavage product. (PMID: 29290690)



Dot blot analysis of RSK1 p90 (phospho T359 + S363) phospho peptide (Lane 1), RSK1 p90 phospho T359 phospho peptide (Lane 2), RSK1 p90 phospho S363 phospho peptide (Lane 3) and RSK1 p90 non-phospho peptide (Lane 4) labeling RSK1 p90 (phospho T359 + S363) phospho peptide with purified ab32413 at a dilution of 1/1000 dilution (2.056ug/ml). A Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated ([ab97051](#)) was used as the secondary antibody at a dilution of 1/20,000 dilution.

Blocking buffer: 5% NFDm/TBST. Dilution buffer: 5% NFDm /TBST



**All lanes :** Anti-RSK1 p90 (phospho T359) antibody [E238] (ab32413) at 1/20000 dilution

**Lane 1 :** A431 cell lysate untreated.

**Lane 2 :** A431 cell lysate treated with EGF.

**Predicted band size:** 90 kDa

**Observed band size:** 90 kDa

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 T359 + S363) antibody [E238] (ab32413)

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

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