

**DATASHEET**
**RSK3 Mouse Monoclonal Antibody(C2947)**
**CAT. NO. AMA02559**
**KEY FEATURES**

Target	RSK3	Source / Host	Mouse
Reactivity	Human, Mouse	Clonality	Monoclonal
Applications	WB, IHC, IF/ICC, FC	Conjugation	Unconjugated
Form / Buffer	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.	Storage	at-20°C

**BACKGROUND**

Serine/threonine-protein kinase that acts downstream of ERK (MAPK1/ERK2 and MAPK3/ERK1) signaling and mediates mitogenic and stress-induced activation of transcription factors, regulates translation, and mediates cellular proliferation, survival, and differentiation. May function as tumor suppressor in epithelial ovarian cancer cells.

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IHC	1:100 - 1:500
IF/ICC	1:100 - 1:500
FC	1:100 - 1:200

\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

**PRODUCT OVERVIEW**

Description	Mouse monoclonal to RSK3
Specificity	Recognizes endogenous levels of RSK3 protein
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human RSK3 expressed in E. Coli
Purification	This antibody is purified through a protein G column.
Molecular Weight	Predicted: 83 kD; Observed: 83 kD
Form/Buffer	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	MAPKAPK1C; RSK3; Ribosomal protein S6 kinase alpha-2; S6K-alpha-2; 90 kDa ribosomal protein S6 kinase 2; p90-RSK 2; p90RSK2; MAP kinase-activated protein kinase 1c; MAPK-activated protein kinase 1c; MAPKAP kinase 1c; MAPKAPK-1c; Ribosomal S6 kinase 3; RSK-3; pp90RSK3
Gene Symbol	RPS6KA2
Entrez Gene	6196(Human)
SwissProt	Q15349(Human); Q9WUT3(Mouse)

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

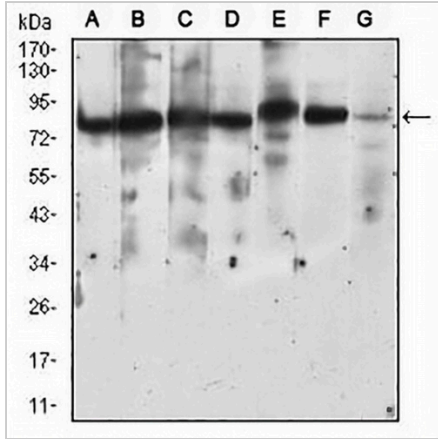
\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

**DATASHEET**

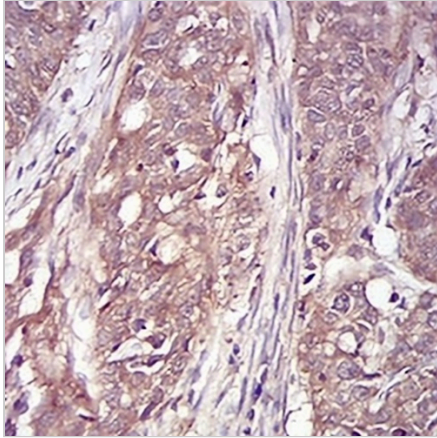
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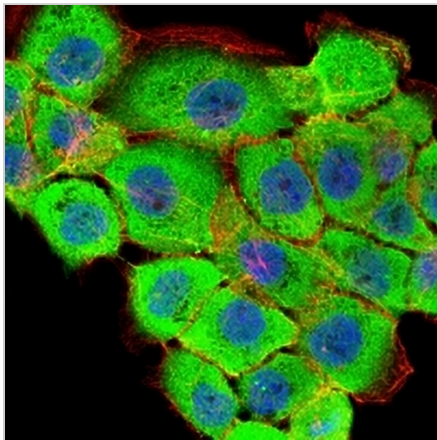
**DATA**



Western blot analysis of RSK3 expression in Hela (A), A431 (B), HEK293 (C), Jurkat (D), HepG2 (E), MCF7 (F), NIH/3T3 (G) whole cell lysates. (Predicted band size: 83 kD; Observed band size: 83 kD)



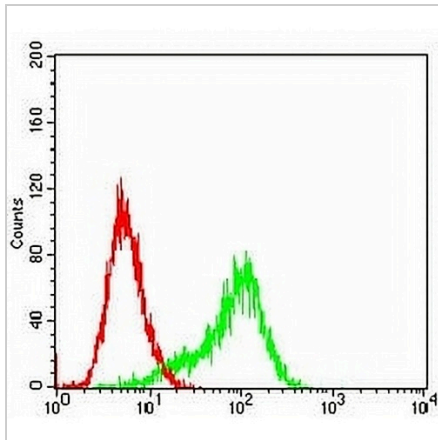
Immunohistochemical analysis of RSK3 staining in human cervical cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of RSK3 staining in A431 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with an AREX® Fluor 488 -conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AREX® Fluor 594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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**DATA (CONTINUED)**

Flow cytometric analysis of HeLa cells using Anti-RSK3 Antibody (green) and negative control (red).

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.