

Datasheet for ABIN2486894

anti-RPS6KA1 antibody (C-Term) (Biotin)**3** Images[Go to Product page](#)

Overview

Quantity:	400 µL
Target:	RPS6KA1
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RPS6KA1 antibody is conjugated to Biotin
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunoprecipitation (IP), Immunocytochemistry (ICC)

Product Details

Immunogen:	Human p90 RSK1 C-terminal peptide, conjugated to KLH
Specificity:	Detects ~90 kDa.
Cross-Reactivity:	Cow, Human, Mouse, Rat
Purification:	Peptide Affinity Purified

Target Details

Target:	RPS6KA1
Alternative Name:	RSK1 (RPS6KA1 Products)
Background:	The p90 ribosomal S6 kinase (Rsk) family comprises four mammalian serine/threonine kinases

Target Details

(Rsk1-4). In the past, S6K1 and S6K2 were thought to be the predominant operating S6 kinases, however RSK 1 and 2 have been shown to phosphorylate S6 in response to the ERK pathway, or otherwise known as the extra cellular signal-regulated kinases pathway. RSK 1 in particular is very multifunctional as it participates in nuclear signaling, regulates nuclear factors, regulates several transcription factors like c-Fos, and interacts with the transcriptional coactivator CREB-binding protein. As a result, RSK1 seems to have an important role in cellular growth control and proliferation. (1-5).

Gene ID: 6195

NCBI Accession: [NP_002944](#)

UniProt: [Q15418](#)

Pathways: [MAPK Signaling](#), [Neurotrophin Signaling Pathway](#), [Activation of Innate immune Response](#), [Toll-Like Receptors Cascades](#)

Application Details

Application Notes:

- WB (1:1000)
- ICC/IF (1:50)
- optimal dilutions for assays should be determined by the user.

Comment: 0.25 mg/ml was sufficient for detection of ABIN2486894 in lysates prepared from mouse brain, spleen and intestine.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 0.25 mg/mL

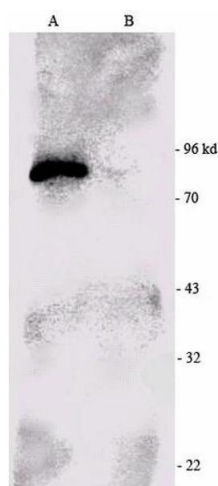
Buffer: PBS, 50 % glycerol, 0.01 % sodium azide, Storage buffer may change when conjugated

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

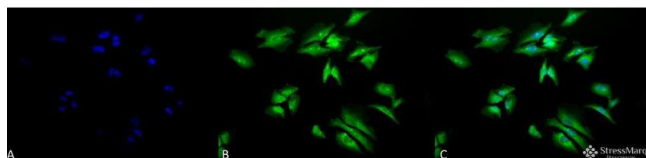
Storage: 4 °C

Storage Comment: Conjugated antibodies should be stored at 4°C



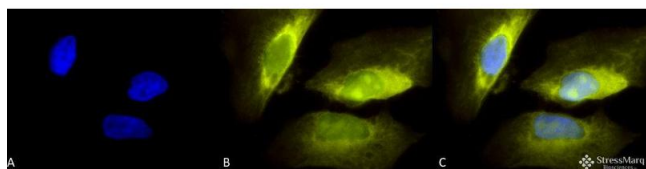
Western Blotting

Image 1. Western blot analysis of Mouse brain cell lysates showing detection of RSK1 protein using Rabbit Anti-RSK1 Polyclonal Antibody . Primary Antibody: Rabbit Anti-RSK1 Polyclonal Antibody at 1:1000. P90 RSK1 immuno-precipitated from the mouse brain extract (left) and immuno-precipitated negative control (right).



Immunofluorescence (fixed cells)

Image 2. Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-p90 RSK1 Polyclonal Antibody . Tissue: Heat Shocked HeLa Cells. Species: Human. Fixation: 2% Formaldehyde for 20 min at RT. Primary Antibody: Rabbit Anti-p90 RSK1 Polyclonal Antibody at 1:50 for 12 hours at 4°C. Secondary Antibody: FITC Goat Anti-Rabbit (green) at 1:200 for 2 hours at RT. Counterstain: DAPI (blue) nuclear stain at 1:40000 for 2 hours at RT. Localization: Nucleus. Cytoplasm. Magnification: 20x. (A) DAPI (blue) nuclear stain. (B) Anti-p90 RSK1 Antibody. (C) Composite. Heat Shocked at 42°C for 30 min.



Immunofluorescence (fixed cells)

Image 3. Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-p90 RSK1 Polyclonal Antibody . Tissue: Heat Shocked HeLa Cells. Species: Human. Fixation: 2% Formaldehyde for 20 min at RT. Primary Antibody: Rabbit Anti-p90 RSK1 Polyclonal Antibody at 1:50 for 12 hours at 4°C. Secondary Antibody: R-PE Goat Anti-Rabbit (yellow) at 1:200 for 2 hours at RT. Counterstain: DAPI (blue) nuclear stain at 1:40000 for 2 hours at RT. Localization: Nucleus. Cytoplasm. Magnification: 100x. (A) DAPI (blue) nuclear stain. (B) Anti-p90 RSK1 Antibody. (C) Composite. Heat Shocked at 42°C for 30 min.