Datasheet for ABIN2486887

anti-RPS6KA1 antibody (C-Term) (Atto 594)

3 Images

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Overview

Quantity:	400 µL
Target:	RPS6KA1
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RPS6KA1 antibody is conjugated to Atto 594
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

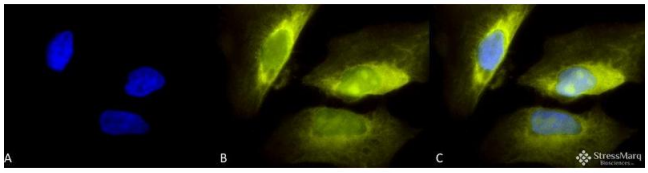
	(Rsk1-4). In the past, S6K1 and S6K2 were thought to be the predominant operating S6 kinases, however RSK 1 and 2 have been shown to phosphorylate S6 in response to the ERK pathway, or otherwise known as the extra cellular signal-regulated kinases pathway. RSK 1 in particular is very multifunctional 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 ABIN2486887 in lysates prepared from mouse brain, spleen and intestine.
Restrictions:	For Research Use only

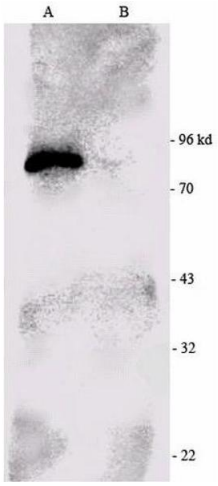
Handling

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



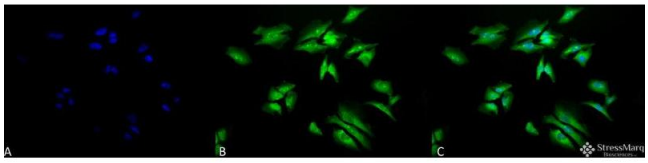
Immunofluorescence (fixed cells)

Image 1. 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.



Western Blotting

Image 2. 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 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: 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.