Datasheet for ABIN1043904

anti-RPS6KA1 antibody (C-Term)

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Overview

Quantity:	100 µg
Target:	RPS6KA1
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	p90 RSK1 Antibody
Immunogen:	Immunogen: Anti-p90 RSK1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to a region near the C-terminal end of human RSK1 protein. Immunogen Type: Conjugated Peptide
Isotype:	IgG
Cross-Reactivity (Details):	This antibody is specific for human p90 RSK1 protein.
Characteristics:	Synonyms: rabbit anti-p90 RSK1 antibody, rabbit anti-RSK1 antibody, Ribosomal S6 Kinase 1, RSK-1, S6K-alpha 1, 90 kDa Ribosomal Protein S6 Kinase 1, MAP kinase-activated protein kinase 1a, MAPK-activated protein kinase 1a, p90-RSK 1, p90S6K, MAPKAP kinase 1a, MAPKAPK-1a, Ribosomal S6 kinase 1, RSK 1, RPS6KA1, MAPKAPK1A
Purification:	Anti-p90 RSK1 was affinity purified from monospecific antiserum by immunoaffinity

Product Details

	chromatography using phosphorylated peptide coupled to agarose beads followed by solid phase adsorption against non phosphorylated peptide.
Sterility:	Sterile filtered

Target Details

Target:	RPS6KA1
Alternative Name:	RPS6KA1 (RPS6KA1 Products)
Background:	Background: Ribosomal S6 Kinase 1 (RSK1) is an immediate downstream effector of mitogen activated protein kinases and therefore promotes cell proliferation and survival. It has serine/threonine kinase activity and may play a role in mediating the growth-factor and stress-induced activation of the transcription factor CREB. The C-terminal region of RSK1 is reported to be an ERK docking site, where serine 732 phosphorylation status is critical for RSK1 activation. When serine 732 is not phosphorylated, ERK1/2 binds to the ERK docking site of RSK1, and upon stimulation, activates RSK1. The activated RSK1 then autophosphorylates serine 732, leading to the dissociation of ERK from RSK1 and termination of activation by ERK. RSK1 is studied in cancer research and is known to inactive tumor suppressor complexes and death kinases.
Gene ID:	6195
NCBI Accession:	NP_001006666
UniProt:	Q15418
Pathways:	MAPK Signaling, Neurotrophin Signaling Pathway, Activation of Innate immune Response, Toll-Like Receptors Cascades

Application Details

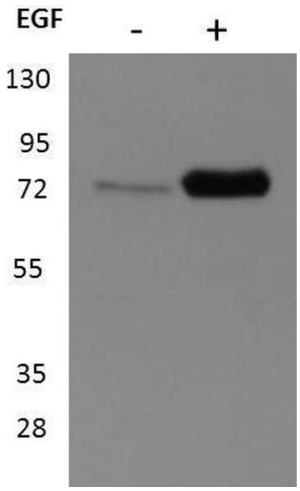
Application Notes:	Application Note: Anti-p90 RSK1 antibody has been tested for use in ELISA and western blotting. Specific conditions for reactivity should be optimized by the end user. By western blot a band approximately 90 kDa in size corresponding to p90 RSK1 protein is expected in the appropriate cell lysate or extract. Western Blot Dilution: 1 µg/mL ELISA Dilution: 1:5000 - 1:50,000 Other: User Optimized
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1.51 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide
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,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months

Publications

Product cited in:	Chaturvedi, Poppleton, Stringfield, Barbier, Patel: "Subcellular localization and biological actions of activated RSK1 are determined by its interactions with subunits of cyclic AMP-dependent protein kinase." in: **Molecular and cellular biology**, Vol. 26, Issue 12, pp. 4586-600, (2006) (PubMed).



Western Blotting

Image 1. Western Blot of Rabbit anti-p90 RSK1 antibody. Lane 1: unstimulated HEK293T cell lysates. Lane 2: EGF stimulated HEK293T cell lysates. Load: 35 µg per lane. Primary antibody: p90 RSK1 antibody at 1:1000 for overnight at 4°C. Secondary antibody: peroxidase conjugated secondary antibody and ECL. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 90 kDa, ~90 kDa for p90 RSK1. Other band(s): none.

