Datasheet for ABIN349634

anti-RPS6KA1 antibody (pSer732)

2 Images

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Overview

Quantity:	100 µg
Target:	RPS6KA1
Binding Specificity:	pSer732
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	p90 RSK1 phospho S732 Antibody
Immunogen:	Immunogen: This affinity purified 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 phosphorylated at S732.
Characteristics:	Synonyms: rabbit anti-p90 RSK1 pS732 antibody, rabbit anti-RSK1 pS732 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:	This product was affinity purified from monospecific antiserum by immunoaffinity

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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, S6K-alpha 1, 90 kDa Ribosomal Protein S6 Kinase 1, MAP kinase-activated protein kinase 1a, or MAPKAPK1A) 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: This affinity-purified 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 pS732 protein is expected in the appropriate cell lysate or extract. Western Blot Dilution: 1:1000-1:3000 ELISA Dilution: 1:5000-1:50,000 Other: User Optimized

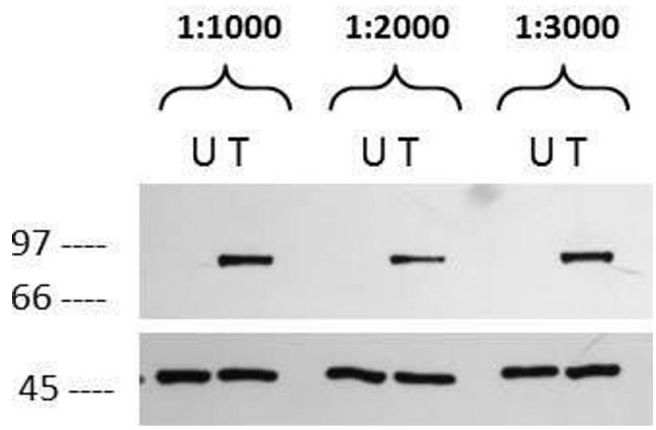
Application Details

Restrictions:	For Research Use only

Handling

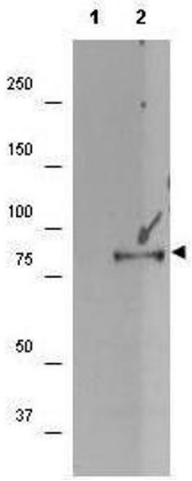
Format:	Liquid
Concentration:	1.7 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should 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

Images



Western Blotting

Image 1. Western blot using affinity purified anti-p90 RSK1 pS732 antibody. Lane 1-2: HEK293T (U) untreated or (T) treated. Lane 3-4: HEK293T (U) untreated or (T) treated. Lane 5-6: HEK293T (U) untreated or (T) treated. Load: 15µg per lane. Actin used as a loading control. Blocking: 5% milk. Primary Antibody: Anti-RSK1-pS732 1:1000, 1:2000, or 1:3000 O/N. Secondary Antibody: Goat Anti-Rabbit IgG 1:5000 for 2 hours. Predicted Size: ~90 kDa in size corresponding to phosphorylated p90 RSK1 in EGF stimulated. Personal Communication. Kuldeep Patel, Loyola University Medical Center, Maywood, IL.



Western Blotting

Image 2. Western blot using affinity purified anti-p90 RSK1 pS732 antibody shows detection of a band ~90 kDa in size corresponding to phosphorylated p90 RSK1 (arrowhead) in EGF stimulated (lane 2) HEK293T cell lysates prepared from cells grown in the absence of serum for 12 h. No staining is observed in similarly prepared lysates derived from unstimulated (control) cells (lane 1). After transfer, the membrane was blocked overnight followed by reaction with the primary antibody at a 1:1,000 dilution. Detection occurred using a peroxidase conjugated secondary antibody and ECL. Personal Communication. Kuldeep Patel, Loyola University Medical Center, Maywood, IL.

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