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Datasheet for 600-401-C66

p90 RSK1 Antibody

Overview

Description:	Anti-p90 RSK1 (RABBIT) Antibody - 600-401-C66
Item No.:	600-401-C66
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

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.
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
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	RPS6KA1
Reactivity:	Human

Immunogen Type:	Conjugated Peptide
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.
Purity/Specificity:	Anti-p90 RSK1 was affinity purified from monospecific antiserum by immunoaffinity chromatography using phosphorylated peptide coupled to agarose beads followed by solid phase adsorption against non phosphorylated peptide. This antibody is specific for human p90 RSK1 protein. A BLAST analysis was used to suggest cross reactivity with p90 RSK1 from human, rat, mouse, horse, bovine, and dog based on 100% homology with the immunizing sequence. Cross reactivity with p90 RSK1 pS732 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q15418 • GeneID - 6195 • NCBI - NP_001006666.1

Application Details

Tested Applications:	ELISA, WB
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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5000 - 1:50,000
WB:	1µg/mL

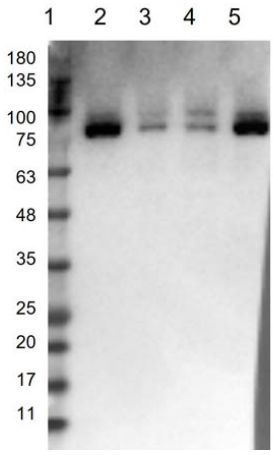
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.2 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	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.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot
Western Blot Results of Anti-p90 RSK1 antibody.
Lane 1: Opal Prestained Molecular Weight Marker (p/n MB-210-0500).
Lane 2: A431 WC Lysate (p/n W09-000-361).
Lane 3: A431 EGF stimulated (p/n W09-000-362).
Lane 4: A431 WC Lysate (p/n W09-000-361).
Lane 5: A431 EGF stimulated (p/n W09-000-362).
Primary Antibody: Anti-p90 RSK1 at 1µg/mL overnight at 2-8°C.
Secondary Antibody: Goat anti-Rabbit IgG Peroxidase (p/n 611-103-122) at 1:40,000 for 30min at RT.
Blocking Buffer: 5% BLOTTO-TTBS for 30min at RT.
Expect: ~82kDa.

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