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Product datasheet for AP09419PU-S

RSK1 p90 (RPS6KA1) pSer732 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, WB
Recommended Dilution:	ELISA: 1/100,000. Western Blot: 1/500 - 1/2,000.
Reactivity:	Bovine, Canine, Chicken, Equine, Human, Mouse, Opossum, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to a region near the C-terminal end of human RSK1 protein
Specificity:	This antibody is specific for p90 RSK1 protein phosphorylated at S732.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 containing 0.01% (w/v) Sodium Azide State: Aff - Purified State: Liquid purified Ig
Concentration:	lot specific
Purification:	Affinity chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody at -20°C. Avoid repeated freezing and thawing. Shelf life: one year from despatch. Storage Conditions for Trial Size: This vial contains a relatively low volume of reagent (25 µl). To minimize loss of volume dilute 1:10 by adding 225 µl of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below.
Stability:	Shelf life: 3 month from despatch.
Gene Name:	ribosomal protein S6 kinase A1

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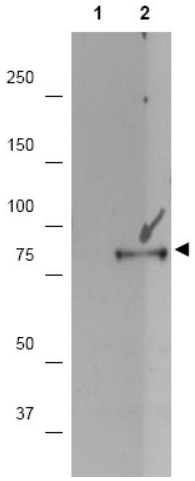
Database Link: Entrez Gene 6195 Human
Q15418

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.

Synonyms: Ribosomal S6 kinase 1, 90 kDa ribosomal protein S6 kinase 1, MAPKAPK1A, RSK1, RSK-1, p90RSK1

Product images:



Western blot using affinity purified antip90 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.