RSK1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RSK1, Polyclonal Antibody
Full Product Name	RSK1, Phosphorylated (Ser364) (Ribosomal S6 Kinase 1, RSK-1, 90kD Ribosomal Protein S6 Kinase 1, p90-RSK 1, p90RSK1, p90S6K, MAP Kinase-activated Protein Kinase 1a, MAPK-activated Protein Kinase 1a, MAPKAP Kinase 1a, MAPKAPK1A, MAPKAPK-1a, Ribosomal Prote
Product Gene Name	anti-RSK1 antibody
Product Synonym Names	Ribosomal Protein S6 Kinase 90kDa Polypeptide 1; EC=2.7.11.1; HU-1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human RSK1 when phosphorylated at Ser364.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	82.723
OMIM	601684
3D Structure	ModBase 3D Structure for Q15418
Immunogen	Synthetic phosphopeptide corresponding to amino acid residues surrounding Ser364 of human RSK1 (KLH).
Conjugate	FITC
Antigen Modification	Phosphorylated
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-RSK1 antibody	Antibodies; Protein Kinases; Ribosomal
Applications Tested/Suitable for anti-RSK1 antibody	Immunohistochemistry (IHC), FLISA
Application Notes for anti-RSK1 antibody	IHC: 1:50-1:100 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-RSK1 antibody	MBS6498234 is an antibody targeting RSK1. Also known as RSK1, Phosphorylated (Ser364) (Ribosomal S6 Kinase 1, RSK-1, 90kD Ribosomal Protein S6 Kinase 1, p90-RSK 1, p90RSK1, p90S6K, MAP Kinase-activated Protein Kinase 1a, MAPK-activated Protein Kinase 1a, MAPKAP Kinase 1a, MAPKAPK1A, MAPKAPK-1a, Ribosomal Prote. Reactive in Human. Host: Rabbit.

Product References and Citations for anti-RSK1 antibody	1. Yntema, H.G., et al., Genomics 62(3):332-343 (1999).
Other Notes	Small volumes of anti-RSK1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RSK1. It may not necessarily be applicable to this product.

NCBI GI #	20149547
NCBI GeneID	6195
NCBI Accession #	NP_002944
UniProt Primary Accession #	Q15418
UniProt Related Accession #	Q15418
GenBank Nucleotide #	NP_002944.2
NCBI Official Full Name	ribosomal protein S6 kinase alpha-1 isoform a
NCBI Official Synonym Full Names	ribosomal protein S6 kinase A1
NCBI Official Symbol	RPS6KA1
NCBI Official Synonym Symbols	RSK; HU-1; RSK1; p90Rsk; MAPKAPK1; MAPKAPK1A
UniProt Protein Name	Ribosomal protein S6 kinase alpha-1
UniProt Synonym Protein Names	90 kDa ribosomal protein S6 kinase 1; p90-RSK 1; p90RSK1; p90S6K; MAP kinase-activated protein kinase 1a; MAPK-activated protein kinase 1a; MAPKAP kinase 1a; MAPKAPK-1a; Ribosomal S6 kinase 1
UniProt Gene Name	RPS6KA1
UniProt Synonym Gene Names	MAPKAPK1A; RSK1; S6K-alpha-1; p90-RSK 1; p90RSK1; p90S6K; MAPK-activated protein kinase 1a; MAPKAP kinase 1a; MAPKAPK-1a; RSK-1
UniProt Entry Name	KS6A1_HUMAN
NCBI Protein Information	ribosomal protein S6 kinase alpha-1
NCBI Summary for RSK1	This gene encodes a member of the RSK (ribosomal S6 kinase) family of serine/threonine kinases. This kinase contains 2 nonidentical kinase catalytic domains and phosphorylates various substrates, including members of the mitogen-activated kinase (MAPK) signalling pathway. The activity of this protein has been implicated in controlling cell growth and differentiation. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]

UniProt Comments for RSK1	p90RSK: an AGC kinase of the RSK family. Phosphorylated and activated by Erk1 and -2 in response to many growth factors, polypeptide hormones and neurotransmitters. Several phosphorylation sites are important for its activation. Possesses two kinase domains connected by a regulator linker region. Phosphorylates a wide range of substrates including ribosomal protein S6. Prominently expressed in brain structures essential for cognitive function and learning. Protein type: EC 2.7.11.1; Protein kinase, AGC; Kinase, protein; Translation; Protein kinase, Ser/Thr (non-receptor); AGC group; RSK family; RSK subfamily Chromosomal Location of Human Ortholog: 1p Cellular Component: nucleoplasm; cytoplasm; spindle; cytosol; nucleus Molecular Function: protein serine/threonine kinase activity; protein binding; caspase inhibitor activity; magnesium ion binding; protein serine/threonine/tyrosine kinase activity; ATP binding Biological Process: regulation of transcription in response to stress; axon guidance; nerve growth factor receptor signaling pathway; MyD88-independent toll-like receptor signaling pathway; stress-activated MAPK cascade; regulation of translation in response to stress; negative regulation of caspase activity; toll-like receptor 3 signaling pathway; signal transduction; cell cycle; positive regulation of cell growth; protein amino acid phosphorylation; toll-like receptor 10 signaling pathway; toll-like receptor 2 signaling pathway; toll-like receptor 5 signaling pathway; MyD88-dependent toll-like receptor signaling pathway; synaptic transmission; toll-like receptor signaling pathway; innate immune response; positive regulation of transcription from RNA polymerase II promoter; toll-like receptor 9 signaling pathway; positive regulation of cell differentiation; toll-like receptor 4 signaling pathway; negative regulation of apoptosis
Research Articles on RSK1	**1.** combination antiretroviral therapy increased monocyte/macrophage sensitivity to reactive oxygen species- in HIV(+) individuals by suppressing NRF2-ARE activity via p90RSK-mediated ERK5 S496 phosphorylation, which coordinately elicited senescent phenotypes and proinflammatory responses
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