

RSK4 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP7944a

Product Information

Application	WB, IHC-P, E
Primary Accession	Q9UK32
Reactivity	Human, Monkey
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	83872
Antigen Region	15-45

Additional Information

Gene ID	27330
Other Names	Ribosomal protein S6 kinase alpha-6, S6K-alpha-6, 90 kDa ribosomal protein S6 kinase 6, p90-RSK 6, p90RSK6, Ribosomal S6 kinase 4, RSK-4, pp90RSK4, RPS6KA6, RSK4
Target/Specificity	This RSK4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 15-45 amino acids from the N-terminal region of human RSK4.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	RSK4 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	RPS6KA6
Synonyms	RSK4
Function	Constitutively active serine/threonine-protein kinase that exhibits growth-factor-independent kinase activity and that may participate in

p53/TP53-dependent cell growth arrest signaling and play an inhibitory role during embryogenesis.

Cellular Location

Cytoplasm, cytosol. Nucleus. Note=Predominantly cytosolic

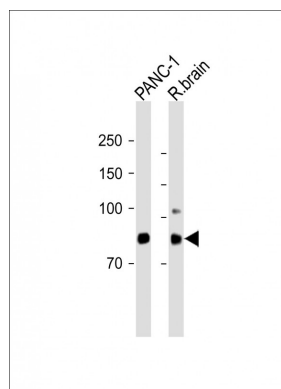
Background

Protein kinases are enzymes that transfer a phosphate group from a phosphate donor, generally the γ phosphate of ATP, onto an acceptor amino acid in a substrate protein. By this basic mechanism, protein kinases mediate most of the signal transduction in eukaryotic cells, regulating cellular metabolism, transcription, cell cycle progression, cytoskeletal rearrangement and cell movement, apoptosis, and differentiation. With more than 500 gene products, the protein kinase family is one of the largest families of proteins in eukaryotes. The family has been classified in 8 major groups based on sequence comparison of their tyrosine (PTK) or serine/threonine (STK) kinase catalytic domains. The AGC kinase group consists of 63 kinases including the cyclic nucleotide-regulated protein kinase (PKA & PKG) family, the diacylglycerol-activated/phospholipid-dependent protein kinase C (PKC) family, the related to PKA and PKC (RAC/Akt) protein kinase family, the kinases that phosphorylate G protein-coupled receptors family (ARK), and the kinases that phosphorylate ribosomal protein S6 family (RSK). The calcium/calmodulin-dependent kinase (CAMK) group consists of 75 kinases regulated by Ca^{2+} /CaM and close relative family (CAMK, CAMKL, DAPK, MAPKAPK).

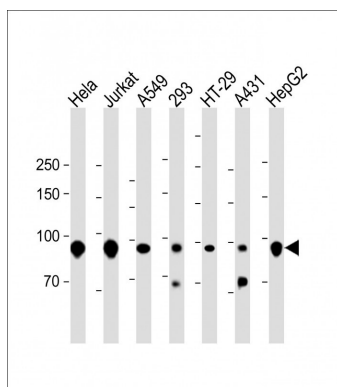
References

Yntema, H.G., et al., Genomics 62(3):332-343 (1999).

Images



All lanes: Anti-hRSK4-G30 at 1:2000 dilution
Lane 1: PANC-1 whole cell lysate
Lane 2: Rat brain lysate
Lysates/proteins at 20 μg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 84 KDa
Blocking/Dilution buffer: 5% NFDM/TBST.



All lanes: Anti-RSK4 Antibody (N-term) at 1:2000 dilution
Lane 1: HeLa whole cell lysate
Lane 2: Jurkat whole cell lysate
Lane 3: A549 whole cell lysate
Lane 4: 293 whole cell lysate
Lane 5: HT-29 whole cell lysate
Lane 5: a431 whole cell lysate
Lane 5: HepG2 whole cell lysate
Lysates/proteins at 20 μg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 90 KDa
Blocking/Dilution buffer: 5% NFDM/TBST.

Citations

- [RSK2 activity mediates glioblastoma invasiveness and is a potential target for new therapeutics.](#)
- [Anti-invasive and antimetastatic activities of ribosomal protein S6 kinase 4 in breast cancer cells.](#)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.