

Rsk-3 (A-16): sc-13379

BACKGROUND

The family of ribosomal S6 kinases (Rsks), designated Rsk-1 (or MAPKAP kinase-1), Rsk-2 and Rsk-3, are intracellular serine/threonine kinases that are important signaling intermediates in response to a broad range of ligand activated receptor tyrosine kinases. A unique feature common to the members of the Rsk family is that each possesses two non-identical complete kinase catalytic domains. An additional Rsk protein, Rsk-4, shows a high level of homology to the three previously isolated members of the human Rsk family. Rsk-4 is most abundantly expressed in brain and kidney and plays a role in normal neuronal development. The family of ribosomal S6 kinases includes p70 S6 kinase and p70 S6 kinase β , which are thought to have similar regulatory functions. MSK1 (also designated RLPK) is a novel Rsk-related protein, which, like the p90 Rsk family members, contains two non-identical complete kinase catalytic domains.

CHROMOSOMAL LOCATION

Genetic locus: RPS6KA2 (human) mapping to 6q27; Rps6ka2 (mouse) mapping to 17 A1.

SOURCE

Rsk-3 (A-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Rsk-3 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-13379 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

Rsk-3 (A-16) is recommended for detection of Rsk-3 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Rsk-3 (A-16) is also recommended for detection of Rsk-3 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Rsk-3 siRNA (h): sc-36443, Rsk-3 siRNA (m): sc-36444, Rsk-3 shRNA Plasmid (h): sc-36443-SH, Rsk-3 shRNA Plasmid (m): sc-36444-SH, Rsk-3 shRNA (h) Lentiviral Particles: sc-36443-V and Rsk-3 shRNA (m) Lentiviral Particles: sc-36444-V.

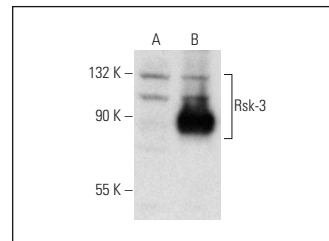
Molecular Weight of Rsk-3: 90 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210, A-431 whole cell lysate: sc-2201 or Rsk-3 (h): 293T Lysate: sc-176241.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



Rsk-3 (A-16): sc-13379. Western blot analysis of Rsk-3 expression in non-transfected: sc-117752 (A) and human Rsk-3 transfected: sc-176241 (B) 293T whole cell lysates.

SELECT PRODUCT CITATIONS

- Dumont, J., et al. 2005. p90Rsk is not involved in cytosstatic factor arrest in mouse oocytes. *J. Cell Biol.* 169: 227-231.
- Bignone, P.A., et al. 2007. RPS6KA2, a putative tumour suppressor gene at 6q27 in sporadic epithelial ovarian cancer. *Oncogene* 26: 683-700.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.


 MONOS
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Try **Rsk-3 (3C4C8): sc-517198**, our highly recommended monoclonal alternative to Rsk-3 (A-16).