Acris Antibodies, Inc.

6815 Flanders Drive, Suite 140
San Diego, CA 92121
UNITED STATES
Phone: +1-858-888-7900
Fax: +1-858-888-7904
US-info@acris-antibodies.com

Acris Antibodies GmbH

Schillerstr. 5
32052 Herford
GERMANY
Phone: +49-5221-34606-0
Fax: +49-5221-34606-11
info@acris-antibodies.com

Polyclonal Antibody to p70 S6 Kinase (p70S6K) non pSer434 - Aff - Purified

Catalog No.: SP6370P

Quantity: 50 µg

Concentration: 0.2 mg/ml

Background: The protein p70 S6 kinase is critical for cell cycle progression and cell survival. In response to mitogen stimulation, p70 S6 kinase activation up-regulates ribosomal biosynthesis and enhances the translational capacity. The p70S6K phosphorylates the S6 protein of the 40S subunit of the ribosome. This kinase was first characterized as an insulin/mitogen-activated protein kinase, whose major known substrate is the 40 S ribosomal subunit protein S6. The p70 S6 kinase is activated by diverse stimuli through a multi-site phosphorylation such as Thr-252 and Ser-434. In Alzheimer's disease (AD), p70 S6 kinase activation is associated with PHF-tau (hyperphosphorylated tau) accumulation. In non-neuronal cells, p70 S6 kinase have been shown to regulate actin polymerization.

Host: Rabbit

Immunogen: Synthetic peptide of human p70 S6K surrounding Serine 434.
AA Sequence:
VAPSVLE

Format: **State:** Liquid Ig fraction
Purification: Epitope affinity chromatography
Buffer System: 1x PBS (pH 7.4) containing 0.05 % sodium azide

Applications: ELISA (0.1 - 1.0 µg/ml).
Western blot (0.5 - 2.0 µg/ml).
Immunoprecipitation (3.0 - 5.0 µg/extract from 10e7 cells).
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody reacts specifically with p70S6K. It was evaluated by Western blot and ELISA. By Western blot, an immunoreactive band around 70 kDa can be detected in HEK293, 3T3 and HeLa whole cell lysates. This band can be blocked by immunizing peptide.
Species: Human, Mouse, Rat.
Other species not tested.

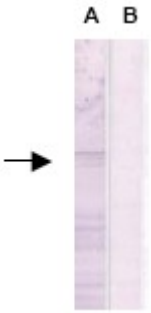
Storage: Store the antibody at 2 - 8 °C or (in aliquots) at -20 °C. Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings:
1. Avruch, J. Mol. Cell Biochem. 1998 182, 31-48.
2. Qing-Ping Weng et al. J Biol Chem, 1998 273(26), 16621-16629.
3. An, WL et al. Am J Pathol. 2003 163(2), 591-607.

For research and in vitro use only. Not for diagnostic or therapeutic work.
Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com

4. Price, D, et al J. Biol. Chem., 1991 266(25), 16281-16284.
5. Raymond C et al Neuroscience. 2002 109, 531-6.

Pictures:

WB: 3T3 cell lysate was probed with rabbit anti P70S6K at 1:500, a major band at 70 kDa was detected (A). This band was abolished upon addition of the blocking peptide (B).