

# Anti-p90 RSK1

Catalog# SPC-147F

Size: 400µl

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This product is for *in vitro* research use only and is not intended for use in humans or animals

## StressMarq

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Product	Rabbit anti-p90 RSK1 antibody; polyclonal
Clone	N/A
Immunogen	Human p90 RSK1 C-terminal peptide, conjugated to KLH
Host and Subclass	Rabbit polyclonal
Cited Applications	WB, IP, ELISA
Specificity	Detects an ~90kDa protein, corresponding to the molecular mass of p90 RSK1 on SDS-PAGE immunoblots
Species cross-reactivity	Human, Mouse, Rat, Bovine
Format	In TBS, 50% glycerol, containing 0.1%NaN <sub>3</sub> Affinity Purified.
Concentration and working dilution	250µg/mL; 1µg/ml was needed for western blot analysis.
Storage and stability	-20°C; 1 year+; shipped on cold packs or ambient

- De Cesare, D. *et al.* (1998) *Proc. Natl. Acad. Sci.* 95: 12202-12207.
- Joel, P. B. *et al.* (1998) *Mol. Cell. Biol.* 18: 1978-1984.

### Certificate of Analysis

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0.25mg/ml was sufficient for detection of SPC- 147 in lysates prepared from mouse brain, spleen and intestine.

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### Scientific Background

The p90 ribosomal S6 kinase (Rsk) family comprises four mammalian serine/threonine kinases (Rsk1-4). In the past, S6K1 and S6K2 were thought to be the predominant operating S6 kinases, however RSK 1 and 2 have been shown to phosphorylate S6 in response to the ERK pathway, or otherwise known as the extra cellular signal-regulated kinases pathway. RSK 1 in particular is very multifunctional as it participates in nuclear signaling, regulates nuclear factors, regulates several transcription factors like c-Fos, and interacts with the transcriptional coactivator CREB-binding protein. As a result, RSK1 seems to have an important role in cellular growth control and proliferation. (1-5).

### Selected References

- Roux, P. (2007). *UCSD-Nature Molecule Pages*.
- Frodin, M. and Gammeltoft, S. (1999) *Mol. Cell. Endocrinol.* 151: 65-77.
- Merienne, K. *et al.* (1998) *J. Med. Genet.* 35: 890-894.

# Material Safety Data Sheet

## Anti-p90 RSK1 (Polyclonal Antibody) SPC-147

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The below information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. StressMarq shall not be held liable for any damage resulting from handling or from contact with the above product. See the Technical Specification, Packing Slip, Invoice, and Product Catalogue for additional terms and conditions of sale.

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### Hazardous Ingredients

The physical, chemical and toxicological properties of these components have not been fully investigated. It is recommended that all laboratory personnel follow standard laboratory safety procedures when handling this product. Safety procedures should include wearing OSHA approved safety glasses, gloves and protective clothing. Direct physical contact with this product should be avoided.

<u>Known Hazardous Components</u>	<u>CAS Number</u>	<u>Percent</u>
Sodium Azide	26628-22-8	0.1

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### Physical Data

This product consists of rabbit immunoglobulin in TBS containing 0.1% azide in 50% glycerol shipped on gel packs. The physical properties of this product have not been investigated thoroughly.

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### Fire and Explosion Hazard and Reactivity Data

NOT APPLICABLE

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### Toxicological Properties

May be harmful by inhalation, ingestion, or skin absorption. The toxicological properties of this product have not been investigated thoroughly. Exercise due caution.

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### Preventative Measures

Wear chemical safety goggles and compatible chemical-resistant gloves. Avoid inhalation, contact with eyes, skin or clothing.

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### Spill and Leak Procedures

Observe all federal, state and local environmental regulations.

- Wear protective equipment.
- Absorb on sand or vermiculite and place in closed containers for disposal.
- Dispose or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

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### First Aid Measures

- If swallowed, wash out mouth with water, provided person is conscious. Call a physician.
- In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. If a rash or other irritation develops, call a physician.
- If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.
- In case of eye contact, flush with copious amounts of water for at least 15 minutes while separating the eyelids with fingers. Call a physician.