

## Rsf-1 (S-18): sc-51448

### BACKGROUND

Remodeling and spacing factor 1 (Rsf-1) is a member of the chromatin-remodeling complex family of proteins that regulate gene expression and cell growth. Rsf-1 is a nuclear protein that acts as a histone chaperone and binds to another member of the chromatin-remodeling complex, hSNF2H. Together, this protein duplex regulates RNA transcription and DNA replication by both correctly spacing nucleosome arrays and by mobilizing nucleosomes when chromatin remodeling occurs. In response to hepatitis B infection, Rsf-1 can bind to the viral transcription activator pX, which then coactivates the transcription factor NFκB, thus supporting the life cycle of the viral genome. Additionally, Rsf-1 is thought to be a potent oncogene, with elevated expression observed in ovarian carcinomas.

### REFERENCES

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3. Loyola, A., et al. 2003. Functional analysis of the subunits of the chromatin assembly factor Rsf. *Mol. Cell. Biol.* 23: 6759-6768.
4. Kim, S.Y., et al. 2005. Hepatitis B virus X protein sensitizes UV-induced apoptosis by transcriptional transactivation of FAS ligand gene expression. *IUBMB Life* 57: 651-658.
5. Leupin, O., et al. 2005. Hepatitis B virus X protein stimulates viral genome replication via a DDB1-dependent pathway distinct from that leading to cell death. *J. Virol.* 79: 4238-4245.
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7. Nordlie, M.A., et al. 2005. Genetic contributors toward increased risk for ischemic heart disease. *J. Mol. Cell. Cardiol.* 39: 667-679.
8. Ramadoss, P., et al. 2005. The transactivation domain of the Ah receptor is a key determinant of cellular localization and ligand-independent nucleocytoplasmic shuttling properties. *Biochemistry* 44: 11148-11159.
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### CHROMOSOMAL LOCATION

Genetic locus: RSF1 (human) mapping to 11q14.1; Hbxap (mouse) mapping to 7 E1.

### SOURCE

Rsf-1 (S-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Rsf-1 of human origin.

### STORAGE

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

### PRODUCT

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

Blocking peptide available for competition studies, sc-51448 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### APPLICATIONS

Rsf-1 (S-18) is recommended for detection of Rsf-1 isoforms 1, 2 and 3 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

Rsf-1 (S-18) is also recommended for detection of Rsf-1 isoforms 1, 2 and 3 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Rsf-1 siRNA (h): sc-72261, Rsf-1 siRNA (m): sc-72262, Rsf-1 shRNA Plasmid (h): sc-72261-SH, Rsf-1 shRNA Plasmid (m): sc-72262-SH, Rsf-1 shRNA (h) Lentiviral Particles: sc-72261-V and Rsf-1 shRNA (m) Lentiviral Particles: sc-72262-V.

Molecular Weight of Rsf-1: 215 kDa.

### 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) 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.

### RESEARCH USE

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

### PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.