



▶ RBMS1 (S-14): sc-107997

BACKGROUND

RBMS1 (RNA binding motif, single stranded interacting protein 1), also known as YC1, MSSP (c-Myc single strand binding protein), SCR2 (suppressor of Cdc2 with RNA binding motif), MSSP-1, MSSP-2 or MSSP-3, is a member of the MSSP family of proteins. The MSSP family is comprised of proteins that bind to single stranded DNA/RNA. Through an interaction with the c-Myc protein, members of this family are involved in a wide variety of cellular functions, including gene transcription, DNA replication, apoptosis and cell cycle progression. RBMS1, a nuclear localized protein, is expressed in lung, placenta and heart with highest expression levels during the G₁ to S transition phase of the cell cycle. RBMS1 contains two RNP domains, namely RNP1-A and RNP1-B, both of which are necessary for DNA binding. RBMS1 specifically binds to a catalytic subunit of DNA polymerase (pol) α and stimulates its activity *in vitro*. Due to alternative splicing events, various isoforms exist for RBMS1.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: RBMS1 (human) mapping to 2q24.2; Rbms1 (mouse) mapping to 2 C1.2.

SOURCE

RBMS1 (S-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of RBMS1 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-107997 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-107997 X, 200 μ g/0.1 ml.

APPLICATIONS

RBMS1 (S-14) is recommended for detection of RBMS1 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); non cross-reactive with family members RBMS2 or RBMS3.

Suitable for use as control antibody for RBMS1 siRNA (h): sc-94943, RBMS1 siRNA (m): sc-152757, RBMS1 shRNA Plasmid (h): sc-94943-SH, RBMS1 shRNA Plasmid (m): sc-152757-SH, RBMS1 shRNA (h) Lentiviral Particles: sc-94943-V and RBMS1 shRNA (m) Lentiviral Particles: sc-152757-V.

RBMS1 (S-14) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of RBMS1: 50 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200.

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.

STORAGE

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

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.