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# RBMS1 (m2): 293T Lysate: sc-127457

## 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 G<sub>1</sub> 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)  $\alpha$  and stimulates its activity *in vitro*. Due to alternative splicing events, various isoforms exist for RBMS1.

## REFERENCES

1. Kanaoka, Y. and Nojima, H. 1994. SCR: novel human suppressors of Cdc2/Cdc13 mutants of *Schizosaccharomyces pombe* harbour motifs for RNA binding proteins. *Nucleic Acids Res.* 22: 2687-2693.
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3. Negishi, Y., Nishita, Y., Saegusa, Y., Kakizaki, I., Galli, I., Kihara, F., Tamai, K., Miyajima, N., Iguchi-Ariga, S.M. and Ariga, H. 1994. Identification and cDNA cloning of single-stranded DNA binding proteins that interact with the region upstream of the human c-Myc gene. *Oncogene* 9: 1133-1143.
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5. Niki, T., Galli, I., Ariga, H. and Iguchi-Ariga, S.M. 2000. MSSP, a protein binding to an origin of replication in the c-Myc gene, interacts with a catalytic subunit of DNA polymerase  $\alpha$  and stimulates its polymerase activity. *FEBS Lett.* 475: 209-212.
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## CHROMOSOMAL LOCATION

Genetic locus: *Rbms1* (mouse) mapping to 2 C1.2.

## PRODUCT

RBMS1 (m2): 293T Lysate represents a lysate of mouse RBMS1 transfected 293T cells and is provided as 100  $\mu$ g protein in 200  $\mu$ l SDS-PAGE buffer.

## APPLICATIONS

RBMS1 (m2): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive RBMS1 antibodies. Recommended use: 10-20  $\mu$ l per lane.

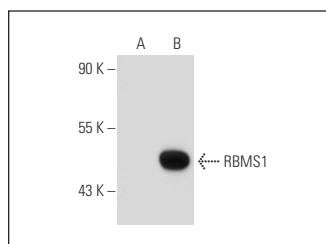
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

RBMS1 (73-K2): sc-101190 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse RBMS1 expression in RBMS1 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:  
 1) Western Blotting: use m-IgG $\kappa$  BP-HRP: sc-516102 or m-IgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>™</sup> Molecular Weight Standards: sc-2035, UltraCruz<sup>®</sup> Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

## DATA



RBMS1 (73-K2): sc-101190. Western blot analysis of RBMS1 expression in non-transfected: sc-117752 (A) and mouse RBMS1 transfected: sc-127457 (B) 293T whole cell lysates.

## STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. 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](http://www.scbt.com) for detailed protocols and support products.