

RBMS2 (B-4): sc-514918

BACKGROUND

RBMS2 is a member of a small family of proteins that bind single stranded DNA or RNA. These proteins are characterized by the presence of two sets of ribonucleoprotein consensus sequence (RNP-CS) that contain conserved motifs, RNP1 and RNP2, and are required for DNA binding. The RBMS proteins have been implicated in such diverse functions as DNA replication, gene transcription, cell cycle progression and apoptosis. RBMS2 (RNA-binding motif, single-stranded-interacting protein 2) is a 407 amino acid protein that contains 2 RRM (RNA recognition motif) domains and localizes to nucleus. It has been suggested that RBMS2 suppresses Cdc2 kinase and Cdc13 cyclin mutants through the induction of translation of Cdc2. The RBMS2 gene is conserved in chimpanzee, canine, bovine, mouse, rat and zebrafish, and maps to human chromosome 12q13.3.

REFERENCES

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2. 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.
3. Bonaldo, M.F., Lennon, G. and Soares, M.B. 1996. Normalization and subtraction: two approaches to facilitate gene discovery. *Genome Res.* 6: 791-806.
4. Online Mendelian Inheritance in Man, OMIM™. 1998. Johns Hopkins University, Baltimore, MD. MIM Number: 602387. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
5. Oppermann, F.S., Gnad, F., Olsen, J.V., Hornberger, R., Greff, Z. Keri, G., Mann, M. and Daub, H. 2009. Large-scale proteomics analysis of the human kinome. *Mol. Cell. Proteomics* 8: 1751-1764.

CHROMOSOMAL LOCATION

Genetic locus: RBMS2 (human) mapping to 12q13.3; Rbms2 (mouse) mapping to 10 D3.

SOURCE

RBMS2 (B-4) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 271-289 within an internal region of RBMS2 of human origin.

PRODUCT

Each vial contains 200 µg IgM kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-514918 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

RESEARCH USE

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

APPLICATIONS

RBMS2 (B-4) is recommended for detection of RBMS2 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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).

Suitable for use as control antibody for RBMS2 siRNA (h): sc-96022, RBMS2 siRNA (m): sc-152758, RBMS2 shRNA Plasmid (h): sc-96022-SH, RBMS2 shRNA Plasmid (m): sc-152758-SH, RBMS2 shRNA (h) Lentiviral Particles: sc-96022-V and RBMS2 shRNA (m) Lentiviral Particles: sc-152758-V.

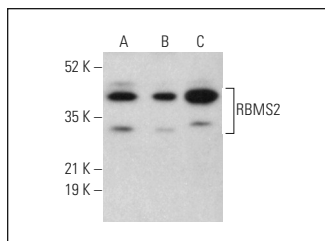
Molecular Weight of RBMS2: 44 kDa.

Positive Controls: KNRK whole cell lysate: sc-2214, HeLa whole cell lysate: sc-2200 or SK-MEL-28 cell lysate: sc-2236.

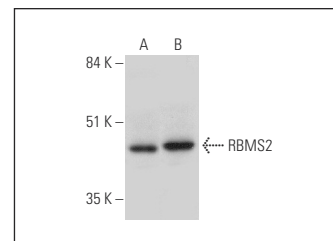
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein L-Agarose: sc-2336 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



RBMS2 (B-4): sc-514918. Western blot analysis of RBMS2 expression in 3T3-L1 whole cell lysate (A) and NIH/3T3 (B) and KNRK (C) nuclear extracts.



RBMS2 (L-15): sc-514918. Western blot analysis of RBMS2 expression in HeLa (A) and SK-MEL-28 (B) whole cell lysates.

STORAGE

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

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.