SANTA CRUZ BIOTECHNOLOGY, INC.

RBM46 (L-24): sc-102077

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

The RBM (RNA-binding motif) gene family encodes proteins with an RNA binding motif. RBM46, also known as cancer/testis antigen 68, is a 533 amino acid protein containing three RNA recognition motifs (RRMs). RNA recognition motifs are one of the most abundant domains in eukaryotes. Characterized by two α helices packed onto a four-stranded β-sheet, these RNA binding domains usually consist of a 90 amino acid sequence that is highly conserved among species. RRM-containing proteins are involved in a high variety of post-translational gene regulation events including splicing, translation regulation, pre-mRNA processing, degradation, alternative splicing, mRNA export, mRNA stability, RNA editing and pre-rRNA complex formation.

REFERENCES

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4. Gerhard, D.S., Wagner, L., Feingold, E.A., Shenmen, C.M., Grouse, L.H., Schuler, G., Klein, S.L., Old, S., Rasooly, R., Good, P., Guyer, M., Peck, A.M., Derge, J.G., Lipman, D., Collins, F.S., Jang, W., Sherry, S., Feolo, M., et al. 2004. The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Genome Res. 14: 2121-2127.
5. Maris, C., Dominguez, C. and Allain, F.H. 2005. The RNA recognition motif, a plastic RNA-binding platform to regulate post-transcriptional gene expression. FEBS J. 272: 2118-2131.
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CHROMOSOMAL LOCATION

Genetic locus: RBM46 (human) mapping to 4q32.1; Rbm46 (mouse) mapping to 3 E3.

SOURCE

RBM46 (L-24) is a purified rabbit polyclonal antibody raised against RBM46 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.

PROTOCOLS

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

PRODUCT

Each vial contains 50 µg IgG in 500 µl PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

APPLICATIONS

RBM46 (L-24) is recommended for detection of RBM46 of mouse, rat, human and dog origin by Western Blotting (starting dilution 1:200, 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), immunohistochemistry (including paraffin-embedded sections) (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 RBM46 siRNA (h): sc-89235, RBM46 siRNA (m): sc-144086, RBM46 shRNA Plasmid (h): sc-89235-SH, RBM46 shRNA Plasmid (m): sc-144086-SH, RBM46 shRNA (h) Lentiviral Particles: sc-89235-V and RBM46 shRNA (m) Lentiviral Particles: sc-144086-V.

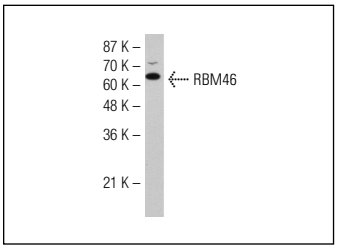
Molecular Weight of RBM46: 60 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204 and human kidney tissue.

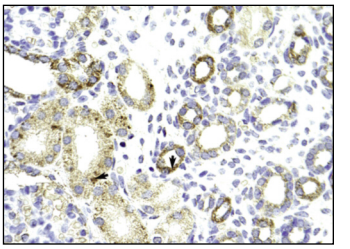
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA



RBM46 (L-24): sc-102077. Western blot analysis of RBM46 expression in Jurkat whole cell lysate.



RBM46 (L-24): sc-102077. Immunoperoxidase staining of formalin fixed, paraffin-embedded human kidney tissue showing cytoplasmic staining.

RESEARCH USE

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