

# RBM42 (S-22): sc-133947

## BACKGROUND

Proteins containing RNA recognition motifs, including various hnRNP proteins, are implicated in the regulation of alternative splicing and protein components of snRNPs. The RBM (RNA-binding motif) gene family encodes proteins with an RNA binding motif that have been suggested to play a role in the modulation of apoptosis. RBM42 (RNA binding motif protein 42) is a 480 amino acid nuclear and cytoplasmic protein that belongs to the RRM RBM42 family and exists as four alternatively spliced isoforms. Identified as an hnRNP K binding protein, RBM42 contains one RRM (RNA recognition motif) domain through which it binds the 3'-untranslated region (UTR) of p21 mRNA. RBM42 may assist in the maintenance of cellular ATP levels during stress, most likely by protecting essential mRNAs, and is encoded by a gene that maps to human chromosome 19.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: RBM42 (human) mapping to 19q13.12; Rbm42 (mouse) mapping to 7 B1.

## SOURCE

RBM42 (S-22) is an affinity purified rabbit polyclonal antibody raised against synthetic RBM42 peptide of human origin.

## PRODUCT

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

## STORAGE

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

## APPLICATIONS

RBM42 (S-22) is recommended for detection of RBM42 of mouse, rat and human 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for RBM42 siRNA (h): sc-97234, RBM42 siRNA (m): sc-152749, RBM42 shRNA Plasmid (h): sc-97234-SH, RBM42 shRNA Plasmid (m): sc-152749-SH, RBM42 shRNA (h) Lentiviral Particles: sc-97234-V and RBM42 shRNA (m) Lentiviral Particles: sc-152749-V.

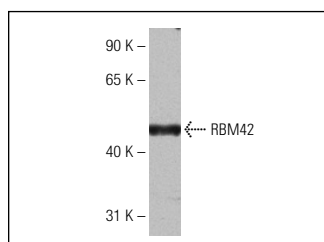
Molecular Weight of RBM42: 50 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227.

## 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<sup>™</sup> compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> 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).

## DATA



RBM42 (S-22): sc-133947. Western blot analysis of RBM42 expression in Hep G2 whole cell lysate.

## 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.