

RBM22 (N-14): sc-132058

BACKGROUND

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. RBM22, also designated zinc finger CCCH domain-containing protein 16, is a highly conserved RNA binding protein that is predominantly recognition motif domain) and a C₃H₁-type zinc finger, RBM22 is primarily involved in pre-mRNA splicing. In the presence of RBM22, cytosolic ALG-2 (apoptosis linked gene 2) translocates to the nucleus, suggesting a functional interaction between the two proteins. Homologs of RBM22 are essential proteins in the regulation of alternative splicing in the cell cycle, zebrafish development and *Drosophila* heart development. The gene encoding RBM22 is significantly downregulated in patients with the 5q deletion syndrome, a clonal disease of the hematopoietic stem cell in which characteristic changes in megakaryocytes result in treatment-resistant anemia and myelodysplastic syndromes that may eventually lead to acute myelogenous leukemia.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: RBM22 (human) mapping to 5q33.1; Rbm22 (mouse) mapping to 18 D3.

SOURCE

RBM22 (N-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of RBM22 of human origin.

RESEARCH USE

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

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-132058 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

RBM22 (N-14) is recommended for detection of RBM22 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 all RBM family members.

RBM22 (N-14) is also recommended for detection of RBM22 in additional species, including equine, canine, bovine and avian.

Suitable for use as control antibody for RBM22 siRNA (h): sc-91911, RBM22 siRNA (m): sc-152734, RBM22 shRNA Plasmid (h): sc-91911-SH, RBM22 shRNA Plasmid (m): sc-152734-SH, RBM22 shRNA (h) Lentiviral Particles: sc-91911-V and RBM22 shRNA (m) Lentiviral Particles: sc-152734-V.

Molecular Weight of RBM22: 47 kDa.

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.

PROTOCOLS

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