

RBM27 (Y-20): sc-243945

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. RBM27 (RNA-binding motif protein 27) is a 1,060 amino acid protein that contains one C3H1-type zinc finger and one RRM (RNA recognition motif) domain. Incorporated into the nuclear speckles and to speckles proximal to the nuclear periphery, RBM27 also localizes to punctate structures in the cytoplasm termed cytospeckles mediated by RBM27's RRM domain. The RBM27 gene is conserved in chimpanzee, canine, bovine, mouse, rat, chicken and zebrafish, and maps to human chromosome 5p32.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: RBM27 (human) mapping to 5q32; Rbm27 (mouse) mapping to 18 B3.

SOURCE

RBM27 (Y-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of RBM27 of human origin.

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-243945 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

RBM27 (Y-20) is recommended for detection of RBM27 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)], 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).

RBM27 (Y-20) is also recommended for detection of RBM27 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for RBM27 siRNA (h): sc-106929, RBM27 siRNA (m): sc-152738, RBM27 shRNA Plasmid (h): sc-106929-SH, RBM27 shRNA Plasmid (m): sc-152738-SH, RBM27 shRNA (h) Lentiviral Particles: sc-106929-V and RBM27 shRNA (m) Lentiviral Particles: sc-152738-V.

Molecular Weight of RBM27: 119 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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.