RBM12 (N-18): sc-85870

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BIOTECHNOLOGY

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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. RBM12 (RNA binding motif protein 12), also known as SWAN, HRIHFB2091 or KIAA0765, is a 932 amino acid protein which localizes to the nucleus. RBM12 contains multiple proline-rich regions, transmembrane domains and three RNA recognition motifs (RRM). It has been found that the genes for RBM12 and copine I (CPNE1) overlap at human chromosome location 20q11.22, sharing the promoter region and a 5'UTR (which are conserved in human, zebrafish and mouse), suggesting that a functional interaction between the two genes may exist.

CHROMOSOMAL LOCATION

Genetic locus: RBM12 (human) mapping to 20q11.22; Rbm12 (mouse) mapping to 2 H1.

SOURCE

RBM12 (N-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of RBM12 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-85870 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

RBM12 (N-18) is recommended for detection of RBM12 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); non cross-reactive with other RBM family members.

RBM12 (N-18) is also recommended for detection of RBM12 in additional species, including equine, canine, bovine and avian.

Suitable for use as control antibody for RBM12 siRNA (h): sc-76364, RBM12 siRNA (m): sc-152725, RBM12 shRNA Plasmid (h): sc-76364-SH, RBM12 shRNA Plasmid (m): sc-152725-SH, RBM12 shRNA (h) Lentiviral Particles: sc-76364-V and RBM12 shRNA (m) Lentiviral Particles: sc-152725-V.

Molecular Weight (predicted) of RBM12: 97 kDa.

Molecular Weight (observed) of RBM12: 85 kDa.

Positive Controls: RBM12 (m): 293T Lysate: sc-127445, HeLa whole cell lysate: sc-2200 or K-562 whole cell lysate: sc-2203.

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.

DATA
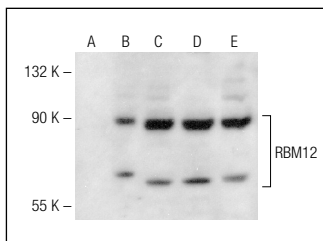
RBM12 (N-18): sc-85870. Western blot analysis of RBM12 expression in non-transfected 293T: sc-117752 (**A**), mouse RBM12 transfected 293T: sc-127445 (**B**), THP-1 (**C**), HeLa (**D**) and K-562 (**E**) whole cell lysates.

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 or our catalog for detailed protocols and support products.

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Try **RBM12 (B-12): sc-514258** or **RBM12 (E-6): sc-514259**, our highly recommended monoclonal alternatives to RBM12 (N-18).