

RBM29 (G-12): sc-132418

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. RBM29 (RNA binding motif protein 29), also known as ELMOD3 (ELMO domain-containing protein 3) or RBED1 (RNA-binding motif and ELMO domain-containing protein 1), is a 381 amino acid protein that contains one ELMO domain and exists as six alternatively spliced isoforms. The gene encoding RBM29 maps to human chromosome 2, which consists of 237 million bases, encodes over 1,400 genes and makes up approximately 8% of the human genome. A number of genetic diseases are linked to genes on chromosome 2 including Harlequin ichthyosis, sitosterolemia and Alström syndrome.

CHROMOSOMAL LOCATION

Genetic locus: ELMOD3 (human) mapping to 2p11.2; Elmod3 (mouse) mapping to 6 C1.

SOURCE

RBM29 (G-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of RBM29 of mouse 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-132418 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

RBM29 (G-12) is recommended for detection of RBM29 isoforms 1 and 2 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.

RBM29 (G-12) is also recommended for detection of RBM29 isoforms 1 and 2 in additional species, including canine.

Suitable for use as control antibody for RBM29 siRNA (h): sc-94681, RBM29 siRNA (m): sc-152740, RBM29 shRNA Plasmid (h): sc-94681-SH, RBM29 shRNA Plasmid (m): sc-152740-SH, RBM29 shRNA (h) Lentiviral Particles: sc-94681-V and RBM29 shRNA (m) Lentiviral Particles: sc-152740-V.

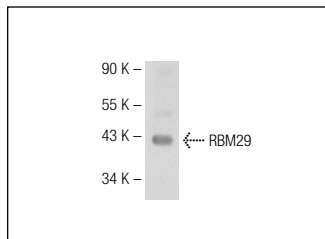
Molecular Weight of RBM29: 43 kDa.

Positive Controls: mouse heart extract: sc-2254 or LADMAC whole cell lysate.

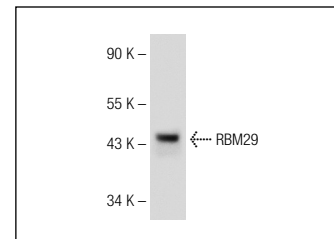
RECOMMENDED SECONDARY REAGENTS

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



RBM29 (G-12): sc-132418. Western blot analysis of RBM29 expression in mouse heart tissue extract.



RBM29 (G-12): sc-132418. Western blot analysis of RBM29 expression in LADMAC whole cell lysate.

RESEARCH USE

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

PROTOCOLS

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

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Guaranteed

Try **RBM29 (D-2): sc-374516**, our highly recommended monoclonal alternative to RBM29 (G-12).