MBNL2 (P-14): sc-50090



The Power to Overtin

BACKGROUND

Pre-mRNA splicing is a critical step in the post-transcriptional regulation of gene expression. Several protein complexes are involved in proper mRNA splicing and transport. The muscleblind proteins, MBNL1, MBNL2 and MBNL3, promote inclusion or exclusion of specific exons on different pre-mRNAs by antagonizing the activity of CUG-BP and ETR-3-like factors bound to distinct intronic sites. MBNL1 and MBNL2 associate with expanded CUG repeats in vitro and localize to the nuclear foci in both DM1 and DM2 (myotonic dystrophy types 1 and 2), suggesting that the nuclear accumulation of mutant RNA is pathogenic in DM1, therefore implicating muscleblind proteins MBNL1 and MBNL2 in the pathogenesis of both disorders. MBNL2, a 367 amino acid protein, participates in recruitment of Intergrin $\alpha 3$ to focal adhesions in an RNA-dependent protein localization mechanism.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: MBNL2 (human) mapping to 13q32.1; Mbnl2 (mouse) mapping to 14 E4.

SOURCE

MBNL2 (P-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of MBNL2 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-50090 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

MBNL2 (P-14) is recommended for detection of MBNL2 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).

MBNL2 (P-14) is also recommended for detection of MBNL2 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for MBNL2 siRNA (h): sc-60990, MBNL2 siRNA (m): sc-60991, MBNL2 shRNA Plasmid (h): sc-60990-SH, MBNL2 shRNA Plasmid (m): sc-60991-SH, MBNL2 shRNA (h) Lentiviral Particles: sc-60990-V and MBNL2 shRNA (m) Lentiviral Particles: sc-60991-V.

Molecular Weight of MBNL2: 41 kDa.

Positive Controls: Caki-1 cell lysate: sc-2224 or SK-N-SH cell lysate: sc-2410.

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) 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.



Try MBNL2 (3B4): sc-136167 or MBNL2 (D-1): sc-365104, our highly recommended monoclonal alternatives to MBNL2 (P-14). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see MBNL2 (3B4): sc-136167.