

hnRNP A/B (M-36): sc-98810

BACKGROUND

Heterogeneous nuclear ribonucleoproteins (hnRNPs) constitute a set of polypeptides that contribute to pre-mRNA processing and transport, and also bind heterogeneous nuclear RNA (hnRNA), which are the transcripts produced by RNA polymerase II. The hnRNPs are associated with pre-mRNAs in the nucleus and appear to influence pre-mRNA processing and other aspects of mRNA metabolism and transport. hnRNP A/B (heterogeneous nuclear ribonucleoprotein A/B), also known as HNRNPAB, ABBP1 or HNRPAB, is a 332 amino acid nuclear protein that is ubiquitously expressed. hnRNP A/B binds single-stranded RNA and has a high affinity for G-rich and U-rich regions of hnRNA. hnRNP A/B contains two RRM (RNA recognition motif) domains and interacts with APOBEC1 (apolipoprotein B mRNA editing enzyme complex-1).

REFERENCES

1. Khan, F.A., et al. 1991. Cloning and sequence analysis of a human type A/B hnRNP protein. *FEBS Lett.* 290: 159-161.
2. Lau, P.P., et al. 1997. Cloning of an Apobec-1-binding protein that also interacts with apolipoprotein B mRNA and evidence for its involvement in RNA editing. *J. Biol. Chem.* 272: 1452-1455.

CHROMOSOMAL LOCATION

Genetic locus: Hnmpab (mouse) mapping to 11 B1.3.

SOURCE

hnRNP A/B (M-36) is a rabbit polyclonal antibody raised against amino acids 1-36 mapping at the N-terminus of hnRNP A/B 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. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-98810 X, 200 µg/0.1 ml.

APPLICATIONS

hnRNP A/B (M-36) is recommended for detection of hnRNP A/B of mouse and rat 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for hnRNP A/B siRNA (m): sc-75272, hnRNP A/B shRNA Plasmid (m): sc-75272-SH and hnRNP A/B shRNA (m) Lentiviral Particles: sc-75272-V.

hnRNP A/B (M-36) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

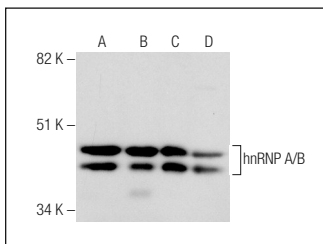
Molecular Weight of hnRNP A/B: 37 kDa.

Positive Controls: RAW 264.7 nuclear extract: sc-24961, NIH/3T3 nuclear extract: sc-2138 or MM-142 nuclear extract: sc-2139.

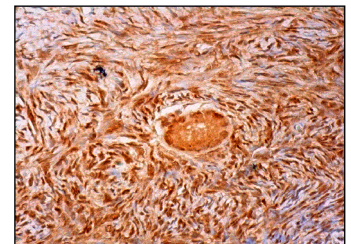
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA



hnRNP A/B (M-36): sc-98810. Western blot analysis of hnRNP A/B expression in RAW 264.7 (A), NIH/3T3 (B), MM-142 (C) and SolB (D) nuclear extracts.



hnRNP A/B (M-36): sc-98810. Immunoperoxidase staining of formalin fixed, paraffin-embedded human ovary tissue showing nuclear and cytoplasmic staining of follicle cells and ovarian stroma cells.

STORAGE

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

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.


 MONOS
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Try **hnRNP A/B (G-12): sc-390957**, our highly recommended monoclonal alternative to hnRNP A/B (M-36).