SANTA CRUZ BIOTECHNOLOGY, INC.

hnRNP A/B (M-15): sc-82628

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

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).

CHROMOSOMAL LOCATION

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

SOURCE

hnRNP A/B (M-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-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-82628 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-82628 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

hnRNP A/B (M-15) 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

hnRNP A/B (M-15) is also recommended for detection of hnRNP A/B in additional species, including bovine and porcine.

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-15) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

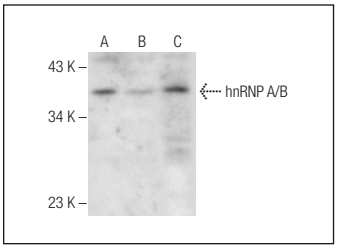
Molecular Weight of hnRNP A/B: 37 kDa.

Positive Controls: KNRK nuclear extract: sc-2141, MM-142 nuclear extract: sc-2139 or Sol8 nuclear extract: sc-2157.

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



hnRNP A/B (M-15): sc-82628. Western blot analysis of hnRNP A/B expression in MM-142 (**A**), Sol8 (**B**) and KNRK (**C**) nuclear extracts.

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.

MONOS Satisfaction Guaranteed

Try **hnRNP A/B (G-12): sc-390957**, our highly recommended monoclonal alternative to hnRNP A/B (M-15).