

hnRNP H3 (A-13): sc-132303

BACKGROUND

Heterogeneous nuclear ribonucleoproteins (hnRNPs) constitute a set of polypeptides that contribute to mRNA transcription and pre-mRNA processing, as well as mature mRNA transport to the cytoplasm and translation. hnRNPs also bind heterogeneous nuclear RNA (hnRNA), which are the transcripts produced by RNA polymerase II. There are approximately 20 known hnRNP proteins, and their complexes are the major constituents of the spliceosome. The majority of hnRNP proteins are localized to the nucleus, however some shuttle between the nucleus and the cytoplasm. HnRNPs F and H are highly related factors that preferentially associate with poly(rG) regions on RNA. hnRNP H3, also known as hnRNP 2H9, is a 346 amino acid protein involved in RNA processing, as well as early heat shock-inducing splicing arrest. HnRNP H3 contains two RNA recognition motif (RRM) domains, which include locations for binding single-stranded RNA. HnRNP H3 is expressed as six isoforms generated by alternative splicing of the pre-mRNA.

CHROMOSOMAL LOCATION

Genetic locus: HNRNP3 (human) mapping to 10q21.3; Hnrnp3 (mouse) mapping to 10 B4.

SOURCE

hnRNP H3 (A-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of hnRNP H3 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-132303 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

hnRNP H3 (A-13) is recommended for detection of hnRNP H3 isoforms 1, 2, 3, 4, 5 and 6 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), 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); non cross-reactive with hnRNP H1 or hnRNP H2.

hnRNP H3 (A-13) is also recommended for detection of hnRNP H3 isoforms 1, 2, 3, 4, 5 and 6 in additional species, including equine, canine, bovine and porcine.

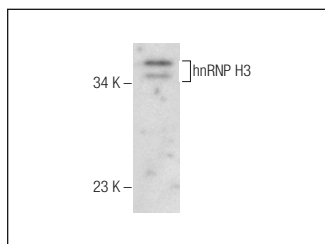
Suitable for use as control antibody for hnRNP H3 siRNA (h): sc-90762, hnRNP H3 siRNA (m): sc-146063, hnRNP H3 shRNA Plasmid (h): sc-90762-SH, hnRNP H3 shRNA Plasmid (m): sc-146063-SH, hnRNP H3 shRNA (h) Lentiviral Particles: sc-90762-V and hnRNP H3 shRNA (m) Lentiviral Particles: sc-146063-V.

Molecular Weight of hnRNP H3: 37 kDa.

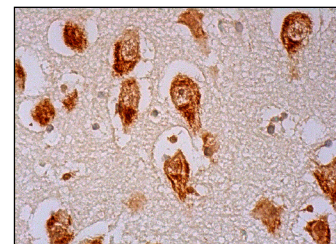
RECOMMENDED SECONDARY REAGENTS

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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

DATA



hnRNP H3 (A-13): sc-132303. Western blot analysis of hnRNP H3 expression in BJAB nuclear extract.



hnRNP H3 (A-13): sc-132303. Immunoperoxidase staining of formalin fixed, paraffin-embedded human hippocampus tissue showing nuclear and cytoplasmic staining of neuronal cells and nuclear staining of glial 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
Satisfaction
Guaranteed

Try **hnRNP H3 (D-4): sc-376416**, our highly recommended monoclonal alternative to hnRNP H3 (A-13).