SANTA CRUZ BIOTECHNOLOGY, INC.

hnRNP E2 (H-15): sc-30725

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Heterogeneous nuclear ribonucleoproteins (hnRNPs) constitute a set of polypeptides that contribute to mRNA transcription, pre-mRNA processing and mature mRNA transport to the cytoplasm and translation. They 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 components are localized to the nucleus; however some shuttle between the nucleus and the cytoplasm, such as hnRNP E1 and E2. hnRNP E1 may function in the cytoplasm as a translational regulatory protein, while hnRNP E2 stabilizes mRNA to enhance polioviral mRNA translation. hnRNP M is involved in pre-mRNA splicing and in stress-induced transient splicing arrest.

CHROMOSOMAL LOCATION

Genetic locus: PCBP2 (human) mapping to 12q13.13; Pcbp2 (mouse) mapping to 15 F3.

SOURCE

hnRNP E2 (H-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of hnRNP E2 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-30725 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 E2 (H-15) is recommended for detection of hnRNP E2 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).

hnRNP E2 (H-15) is also recommended for detection of hnRNP E2 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for hnRNP E2 siRNA (h): sc-38270, hnRNP E2 siRNA (m): sc-38271, hnRNP E2 shRNA Plasmid (h): sc-38270-SH, hnRNP E2 shRNA Plasmid (m): sc-38271-SH, hnRNP E2 shRNA (h) Lentiviral Particles: sc-38270-V and hnRNP E2 shRNA (m) Lentiviral Particles: sc-38271-V.

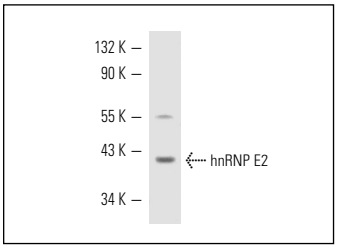
Molecular Weight of hnRNP E2: 40 kDa.

Positive Controls: K-562 whole cell lysate: sc-2203 or Sol8 nuclear extract: sc-2157.

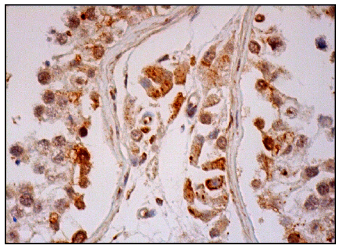
RECOMMENDED SECONDARY REAGENTS

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

DATA



hnRNP E2 (H-15): sc-30725. Western blot analysis of hnRNP E2 expression in Sol8 nuclear extract.



hnRNP E2 (H-15): sc-30725. Immunoperoxidase staining of formalin fixed, paraffin-embedded human testis tissue showing nuclear and cytoplasmic staining of cells in seminiferous ducts and cytoplasmic staining of Leydig cells.

SELECT PRODUCT CITATIONS

1. Dinh, P.X., et al. 2011. Antagonistic effects of cellular poly(C) binding proteins on vesicular stomatitis virus gene expression. J. Virol. 85: 9459-9471.
2. Beura, L.K., et al. 2011. Cellular poly(c) binding proteins 1 and 2 interact with porcine reproductive and respiratory syndrome virus nonstructural protein 1β and support viral replication. J. Virol. 85: 12939-12949.

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.