

NAP1L1 (H-44): sc-292698

BACKGROUND

Proper nucleosome assembly is critical for compacting DNA into chromatin. NAP1 (nucleosome assembly protein 1) is a nuclear protein that acts as a transcriptional regulator and functions in nucleosome assembly. NAP1L1 (nucleosome assembly protein 1-like 1), also known as NRP, is a 391 amino acid member of the nucleosome assembly protein (NAP) family and may be involved in mediating chromatin formation. Localized to the nucleus and expressed throughout the body, NAP1L1 contains acidic domains which are thought to mediate NAP1L1-histone interaction. Due to its role in DNA replication, NAP1L1 is implicated as an important regulator of cell proliferation. NAP1L1 shares 54% sequence similarity with the *Saccharomyces cerevisiae* Nap1 protein and may be a genetic marker for intestinal carcinomas.

CHROMOSOMAL LOCATION

Genetic locus: NAP1L1 (human) mapping to 12q21.2; Nap1l1 (mouse) mapping to 10 D1.

SOURCE

NAP1L1 (H-44) is a rabbit polyclonal antibody raised against amino acids 1-44 mapping at the N-terminus of NAP1L1 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. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-292698 X, 200 µg/0.1 ml.

STORAGE

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

APPLICATIONS

NAP1L1 (H-44) is recommended for detection of NAP1L1 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).

NAP1L1 (H-44) is also recommended for detection of NAP1L1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for NAP1L1 siRNA (h): sc-75871, NAP1L1 siRNA (m): sc-75872, NAP1L1 shRNA Plasmid (h): sc-75871-SH, NAP1L1 shRNA Plasmid (m): sc-75872-SH, NAP1L1 shRNA (h) Lentiviral Particles: sc-75871-V and NAP1L1 shRNA (m) Lentiviral Particles: sc-75872-V.

NAP1L1 (H-44) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

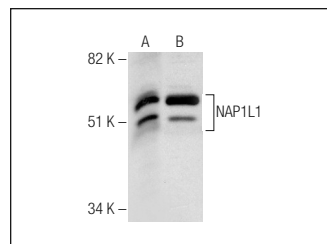
Molecular Weight of NAP1L1: 45 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200 or Raji whole cell lysate: sc-364236.

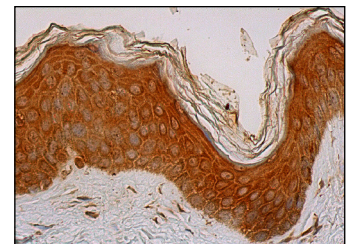
RECOMMENDED SECONDARY REAGENTS

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



NAP1L1 (H-44): sc-292698. Western blot analysis of NAP1L1 expression in HeLa (A) and Raji (B) whole cell lysates.



NAP1L1 (H-44): sc-292698. Immunoperoxidase staining of formalin fixed, paraffin-embedded skin tissue showing cytoplasmic and nuclear staining of keratinocytes and Langerhans cells and cytoplasmic staining of fibroblasts and melanocytes.

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 **NAP1L1 (2609C3a): sc-81328**, our highly recommended monoclonal alternative to NAP1L1 (H-44).