

NIF3L1 BP1 (Y-13): sc-103072

BACKGROUND

NIF3L1 BP1 (Ngg1-interacting factor 3-like 1 binding protein 1), also known as THOC7 (THO complex subunit 7 homolog), fSAP24 or hTREX30, is a 204 amino acid cytoplasmic and nuclear protein that belongs to the THOC7 family and interacts with NIF3L1. NIF3L1 BP1 is a component of the THO/TREX complex that is recruited to transcribed genes and travels along with RNA polymerase II (Pol II) during elongation, coupling Pol II with RNA splicing and export factors. The THO/TREX complex also plays a role in the export of Kaposi's sarcoma-associated herpesvirus (KSHV) intronless mRNAs and infectious virus production. The gene that encodes NIF3L1 BP1 maps to human chromosome 3p14.1. Chromosome 3 houses over 1,100 genes, including a chemokine receptor (CKR) gene cluster and a variety of human cancer-related gene loci.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: THOC7 (human) mapping to 3p14.1; Thoc7 (mouse) mapping to 14 A1.

SOURCE

NIF3L1 BP1 (Y-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of NIF3L1 BP1 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-103072 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

NIF3L1 BP1 (Y-13) is recommended for detection of NIF3L1 BP1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

Suitable for use as control antibody for NIF3L1 BP1 siRNA (h): sc-78282, NIF3L1 BP1 siRNA (m): sc-149973, NIF3L1 BP1 shRNA Plasmid (h): sc-78282-SH, NIF3L1 BP1 shRNA Plasmid (m): sc-149973-SH, NIF3L1 BP1 shRNA (h) Lentiviral Particles: sc-78282-V and NIF3L1 BP1 shRNA (m) Lentiviral Particles: sc-149973-V.

Molecular Weight of NIF3L1 BP1: 24 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) 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.

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.