

THOC1 (S-20): sc-69035

BACKGROUND

THOC1 (THO complex subunit 1), also known as Tho1, P84, HPR1 or P84N5, is a 657 amino acid nuclear matrix protein and is evolutionarily conserved from yeast to humans. THOC1 contains one death domain and is a component of the heteromultimeric THO/TREX (transcription/export) complex along with THOC2, THOC3, BAT1 and ALY. The THO/TREX complex is recruited to transcribed genes and travels along with RNA polymerase II (Pol II) during elongation, coupling elongating Pol II with RNA splicing and export factors. THOC1 is expressed at high levels in breast cancer cells and at relatively low levels in normal epithelia. A reduction of THOC1 in cancer cell lines results in reduced cell proliferation. This suggests that cancer cells are dependent on the high levels of THOC1 expression and therefore THOC1 may be a good target for cancer therapy.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: THOC1 (human) mapping to 18p11.32; Thoc1 (mouse) mapping to 18 A1.

SOURCE

THOC1 (S-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of THOC1 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-69035 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-69035 X, 200 µg/0.1 ml.

APPLICATIONS

THOC1 (S-20) is recommended for detection of THOC1 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).

THOC1 (S-20) is also recommended for detection of THOC1 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for THOC1 siRNA (h): sc-76652, THOC1 siRNA (m): sc-76653, THOC1 shRNA Plasmid (h): sc-76652-SH, THOC1 shRNA Plasmid (m): sc-76653-SH, THOC1 shRNA (h) Lentiviral Particles: sc-76652-V and THOC1 shRNA (m) Lentiviral Particles: sc-76653-V.

THOC1 (S-20) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of THOC1: 84 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.