

# THOC6 (H-300): sc-292847

## BACKGROUND

WD-repeats are motifs that are found in a variety of proteins and are characterized by a conserved core of 40-60 amino acids that commonly form a tertiary propeller structure. While proteins that contain WD-repeats participate in a wide range of cellular functions, they are generally involved in regulatory mechanisms concerning chromatin assembly, cell cycle control, signal transduction, RNA processing, apoptosis and vesicular trafficking. THOC6 (THO complex 6 homolog), also known as WDR58 (WD-repeat-containing protein 58) is a 341 amino acid protein that contains seven WD-repeats and belongs to the WD-repeat THOC6 family. THOC6 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 elongating Pol II with RNA splicing and export factors. Multiple isoforms of THOC6 exist due to alternative splicing events.

## REFERENCES

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3. Garcia-Higuera, I., Fenoglio, J., Li, Y., Lewis, C., Panchenko, M.P., Reiner, O., Smith, T.F. and Neer, E.J. 1996. Folding of proteins with WD-repeats: comparison of six members of the WD-repeat superfamily to the G protein beta subunit. *Biochemistry* 35: 13985-13994.
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5. Smith, T.F., Gaitatzes, C., Saxena, K. and Neer, E.J. 1999. The WD repeat: a common architecture for diverse functions. *Trends Biochem. Sci.* 24: 181-185.
6. Li, D. and Roberts, R. 2001. WD-repeat proteins: structure characteristics, biological function, and their involvement in human diseases. *Cell. Mol. Life Sci.* 58: 2085-2097.
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## CHROMOSOMAL LOCATION

Genetic locus: THOC6 (human) mapping to 16p13.3; Thoc6 (mouse) mapping to 17 A3.3.

## SOURCE

THOC6 (H-300) is a rabbit polyclonal antibody raised against amino acids 1-300 mapping at the N-terminus of THOC6 of human origin.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

THOC6 (H-300) is recommended for detection of THOC6 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], 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).

THOC6 (H-300) is also recommended for detection of THOC6 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for THOC6 siRNA (h): sc-76656, THOC6 siRNA (m): sc-76657, THOC6 shRNA Plasmid (h): sc-76656-SH, THOC6 shRNA Plasmid (m): sc-76657-SH, THOC6 shRNA (h) Lentiviral Particles: sc-76656-V and THOC6 shRNA (m) Lentiviral Particles: sc-76657-V.

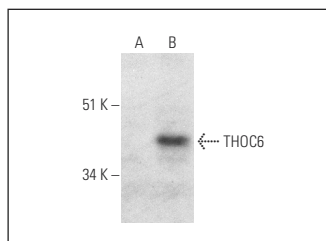
Molecular Weight of THOC6: 38 kDa.

Positive Controls: THOC6 (h): 293T Lysate: sc-116264.

## 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.

## DATA



THOC6 (H-300): sc-292847. Western blot analysis of THOC6 expression in non-transfected: sc-117752 (A) and human THOC6 transfected: sc-116264 (B) 293T whole cell lysates.

## STORAGE

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