

## Rabbit anti-Human THOC1 Polyclonal Antibody | anti-THOC1 antibody

Anti-THOC1 Antibody, Rabbit Polyclonal

|                               |                       |                            |                                                                                                    |
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| CATALOG #<br><b>AAA256165</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>Immunofluorescence, Immunocytochemistry, Immunohistochemistry, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------|----------------------------------------------------------------------------------------------------|

### PRODUCT SYNONYMS

THOC1; Polyclonal Antibody; Anti-THOC1 Antibody; Rabbit Polyclonal; THOC1 Antibody; Rabbit PAb; Antigen Affinity Purified; THO complex 1; Anti-HPR1 Antibody; Anti-P84 Antibody; Anti-P84N5 Antibody; anti-THOC1 antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                                                    |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                                                                             |
| Reactivity                                      | Human                                                                                                                                                                                                                                              |
| Clonality                                       | Polyclonal                                                                                                                                                                                                                                         |
| Isotype                                         | Rabbit IgG                                                                                                                                                                                                                                         |
| Specificity                                     | Human THOC1                                                                                                                                                                                                                                        |
| Purity/Purification                             | Protein A & Antigen Affinity                                                                                                                                                                                                                       |
| Form/Format                                     | Liquid; PBS, pH7.0 with 0.03% Proclin300                                                                                                                                                                                                           |
| Applicable Applications for anti-THOC1 antibody | IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                                  |
| Immunogen                                       | E Coli-derived Human THOC1 fragment                                                                                                                                                                                                                |
| Conjugation                                     | Unconjugated                                                                                                                                                                                                                                       |
| Preparation                                     | Produced in rabbits immunized with E Coli-derived Human THOC1 fragment, and purified by antigen affinity chromatography.                                                                                                                           |
| Preparation and Storage                         | This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles. |

### IMAGES



#### IF (Immunofluorescence)

Immunofluorescence staining of THOC1 in A431 cells. Cells were fixed with 4% PFA, permeabilized with 0.1% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-Human THOC1 polyclonal antibody (dilution ratio 1:200) at 4 degree C overnight. Then cells were stained with the Alexa Fluor488-conjugated Goat Anti-rabbit IgG secondary antibody (green). Positive staining was localized to Nucleus and Cytoplasm.



#### IHC (Immunohistochemistry)

Immunochemical staining of human THOC1 in human gallbladder with rabbit polyclonal antibody at 1:500 dilution, formalin-fixed paraffin embedded sections.



#### WB (Western Blot)

Anti-THOC1 rabbit polyclonal antibody at 1:500 dilution Lane A: Jurkat Whole Cell Lysate Lane B: HeLa Whole Cell Lysate Lane C: U-87 MG Whole Cell Lysate Lane D: HepG2 Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 76 kDa Observed band size: 76 kDa

## ADDITIONAL INFORMATION

### Related Product Information for anti-THOC1 antibody

The THO complex 1 (Thoc1) is a nuclear matrix protein playing vital roles in transcription elongation and mRNA export. Thoc1 encodes an essential component of the mammalian TREX protein complex. TREX is an evolutionarily conserved complex that couples elongating RNA polymerase II with RNA processing factors. Depletion of Thoc1 protein (pThoc1) compromises transcriptional elongation and nuclear export of some RNAs. Loss of Thoc1 causes peri-implantation embryonic lethality in the mouse. Aberrant expression of Thoc1 has been reported in an increasing array of tumor types. THOC1 is a human nuclear matrix protein that binds to the retinoblastoma tumor suppressor retinoblastoma protein (pRb). THOC1 was identified as a predictive biomarker vital for hepatocellular carcinoma (HCC)-targeted treatments and improvement of clinical prognosis.

### References

Wang X, et al. (2007) An allelic series for studying the mouse thoc1 gene. *Genesis* 45 (1): 32-37. Wan J, et al. (2014) Thoc1 inhibits cell growth via induction of cell cycle arrest and apoptosis in lung cancer cells. *Mol Med Rep* 9 (6): 2321-2327. Liu C, et al. (2015) Elevated expression of thoc1 is associated with aggressive phenotype and poor prognosis in colorectal cancer. *Biochem Biophys Res Commun* 468 (1-2): 53-58. Li Y, et al. (2007) Cancer cells and normal cells differ in their requirements for thoc1. *Cancer Res* 67 (14): 6657-6664.

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/thoc1-antibody-immunofluorescence-immunocytochemistry-immunohistochemistry-western-blot-elisa/256165>