

For Research Use Only

# THOC1 Recombinant antibody

Catalog Number: 85642-5-RR



## Basic Information

Catalog Number:

85642-5-RR

Concentration:

1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1352

GenBank Accession Number:

BC010381

GeneID (NCBI):

9984

UNIPROT ID:

Q96FV9

Full Name:

THO complex 1

Calculated MW:

84 kDa

Observed MW:

76 kDa

Purification Method:

Protein A purification

CloneNo.:

243161E9

Recommended Dilutions:

WB 1:5000-1:50000

IF/ICC 1:400-1:1600

## Applications

Tested Applications:

WB, IF/ICC, ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : HEK-293 cells, HepG2 cells, U-87 MG cells, HeLa cells, NIH/3T3 cells, PC-12 cells, mouse brain tissue

IF/ICC : HeLa cells,

## Background Information

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 promoted cancer cell apoptosis and 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.

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

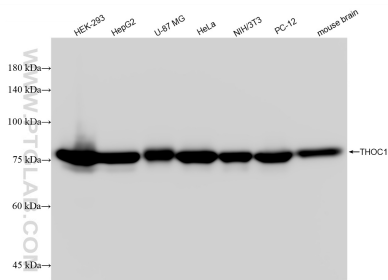
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E: Proteintech-CN@ptglab.com

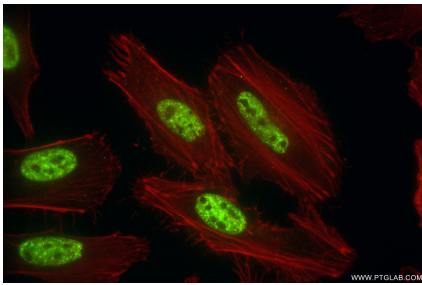
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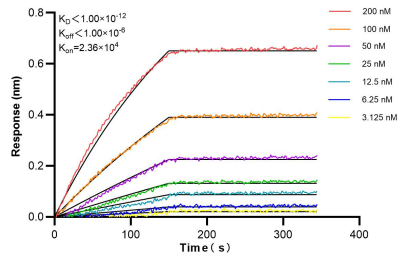
# Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 85642-5-RR (THOC1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using THOC1 antibody (85642-5-RR, Clone: 243161E9 ) at dilution of 1:800 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Biolayer interferometry (BLI) kinetic assays of 85642-5-RR against Human THOC1 were performed. The affinity constant is below 1 pM.