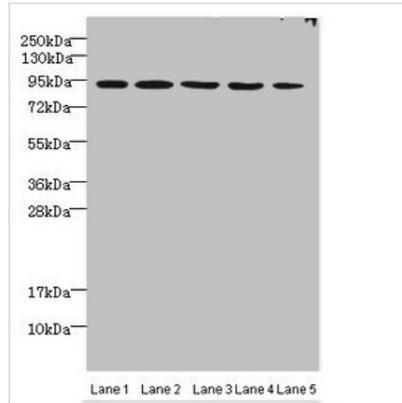




THOC1 Antibody

Product Code	CSB-PA853419ESR1HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q96FV9
Immunogen	Recombinant Human THO complex subunit 1 protein (428-657AA)
Raised In	Rabbit
Species Reactivity	Human, Mouse
Tested Applications	ELISA, WB, IHC, ChIP; Recommended dilution: WB:1:1000-1:5000, IHC:1:20-1:200
Relevance	<p>Required for efficient export of polyadenylated RNA. Acts as component of the THO subcomplex of the TREX complex which is thought to couple mRNA transcription, processing and nuclear export, and which specifically associates with spliced mRNA and not with unspliced pre-mRNA. TREX is recruited to spliced mRNAs by a transcription-independent mechanism, binds to mRNA upstream of the exon-junction complex (EJC) and is recruited in a splicing- and cap-dependent manner to a region near the 5' end of the mRNA where it functions in mRNA export to the cytoplasm via the TAP/NFX1 pathway. The TREX complex is essential for the export of Kaposi's sarcoma-associated herpesvirus (KSHV) intronless mRNAs and infectious virus production. Regulates transcriptional elongation of a subset of genes. Involved in genome stability by preventing co-transcriptional R-loop formation. Participates in an apoptotic pathway which is characterized by activation of caspase-6, increases in the expression of BAK1 and BCL2L1 and activation of NF-kappa-B. This pathway does not require p53/TP53, nor does the presence of p53/TP53 affect the efficiency of cell killing. Activates a G2/M cell cycle checkpoint prior to the onset of apoptosis. Apoptosis is inhibited by association with RB1.</p>
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Purification Method	Antigen Affinity Purified
Isotype	IgG
Clonality	Polyclonal
Alias	THO complex subunit 1 (Tho1) (Nuclear matrix protein p84) (p84N5) (hTREX84), THOC1, HPR1
Species	Human
Research Area	Tags & Cell Markers
Target Names	THOC1
Image	


Western blot

 All lanes: THOC1 antibody at 3 μ g/ml

Lane 1: Jurkats whole cell lysate

Lane 2: 293T whole cell lysate

Lane 3: HepG2 whole cell lysate

Lane 4: A549 whole cell lysate

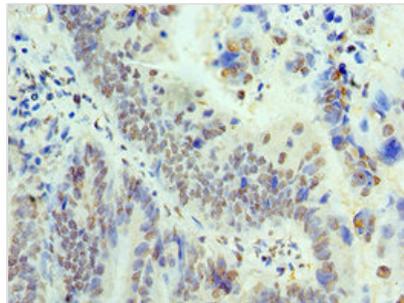
Lane 5: Mouse kidney tissue

Secondary

Goat polyclonal to rabbit IgG at 1/10000 dilution

Predicted band size: 76, 44 kDa

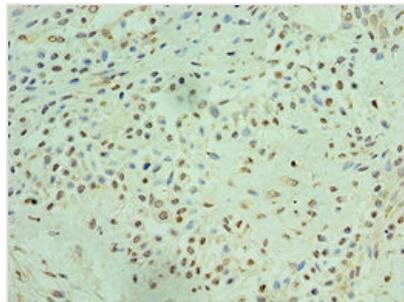
Observed band size: 76 kDa



Immunohistochemistry of paraffin-embedded

human colon cancer using CSB-

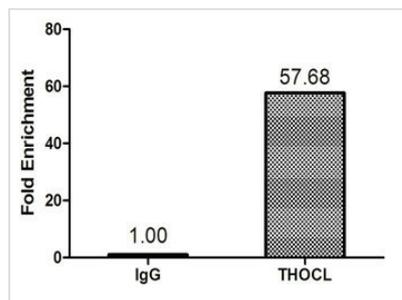
PA853419ESR1HU at dilution of 1:100



Immunohistochemistry of paraffin-embedded

human breast cancer using CSB-

PA853419ESR1HU at dilution of 1:100


 Chromatin Immunoprecipitation 293T (1.6×10^6) were cross-linked with formaldehyde, sonicated, and immunoprecipitated with 4 μ g anti-THOC1 or a control normal rabbit IgG. The resulting ChIP DNA was quantified tissue using real-time PCR with primers (CSB-PP853419HU) against the RHOX5 promoter.