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Product datasheet for TA386600M

THOC1 Rabbit Polyclonal Antibody

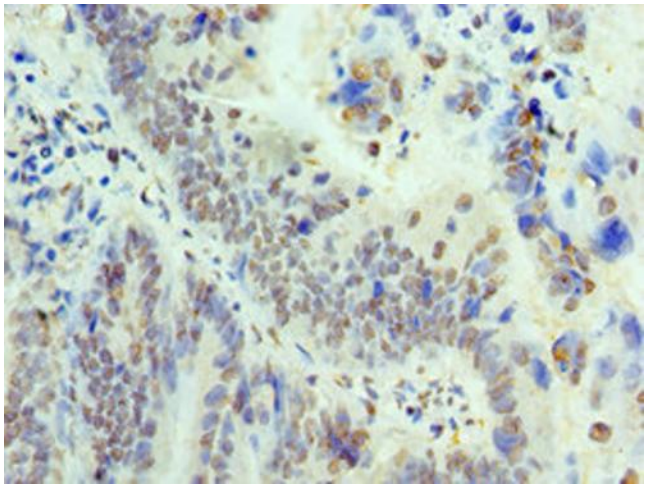
Product data:

Product Type:	Primary Antibodies
Applications:	ChIP, IHC, WB
Recommended Dilution:	Recommended dilution: WB:1:1000-1:5000, IHC:1:20-1:200
Reactivity:	Mouse, Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant Human THO complex subunit 1 protein (428-657AA)
Formulation:	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Concentration:	lot specific
Purification:	Antigen Affinity Purified
Conjugation:	Unconjugated
Storage:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Stability:	1 year from dispatch.
Database Link:	Q96FV9

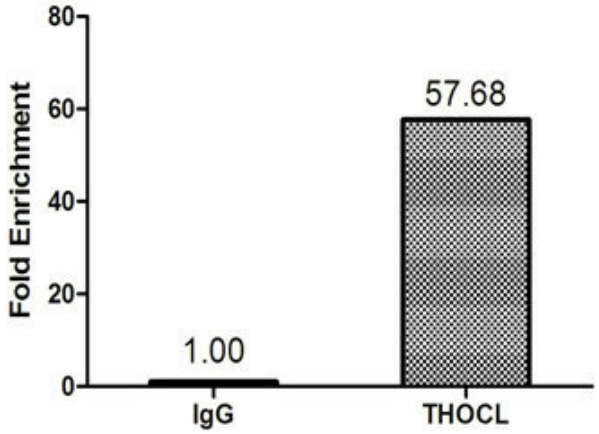
View online »

Background: 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.

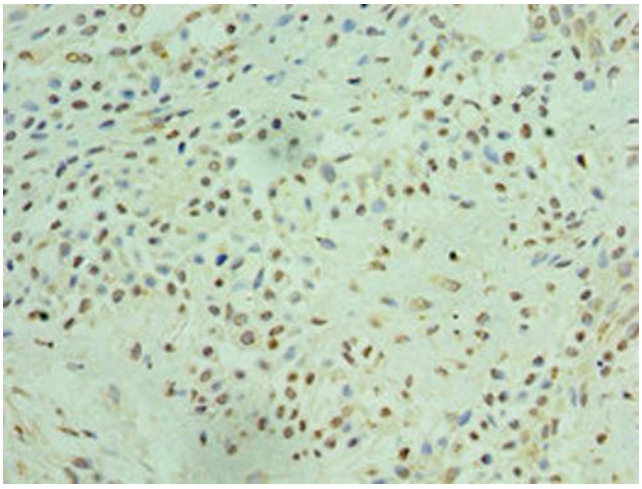
Product images:



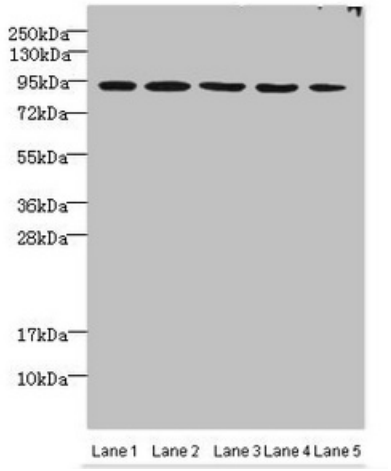
Immunohistochemistry of paraffin-embedded human colon cancer using [TA386600] at dilution of 1:100



Chromatin Immunoprecipitation 293T ($1.6*10^6$) were cross-linked with formaldehyde, sonicated, and immunoprecipitated with 4µg 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.



Immunohistochemistry of paraffin-embedded human breast cancer using [TA386600] at dilution of 1:100



Western blot
All lanes: THOC1 antibody at 3µg/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