

KD-Validated Anti-THO Complex Subunit 1 Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1763**Specification****KD-Validated Anti-THO Complex Subunit 1 Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	Q96FV9
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 76 kDa , observed , 76 kDa KDa
Gene Name	THOC1
Aliases	THOC1; THO Complex Subunit 1; HPR1; P84; Nuclear Matrix Protein P84; THO Complex 1; HTREX84; P84N5; Tho1; DFNA86
Immunogen	A synthesized peptide derived from human Nuclear Matrix Protein p84

KD-Validated Anti-THO Complex Subunit 1 Rabbit Monoclonal Antibody - Additional Information

Gene ID	9984
Other Names	
THO complex subunit 1, Nuclear matrix protein p84, p84N5, hTREX84, THOC1, HPR1	

KD-Validated Anti-THO Complex Subunit 1 Rabbit Monoclonal Antibody - Protein Information**Name** THOC1**Synonyms** HPR1**Function**

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 (PubMed: [15833825](http://www.uniprot.org/citations/15833825), PubMed: [15998806](http://www.uniprot.org/citations/15998806), PubMed: [17190602](http://www.uniprot.org/citations/17190602)). Required for efficient export of polyadenylated RNA (PubMed: [23222130](http://www.uniprot.org/citations/23222130)). The THOC1-THOC2-THOC3 core complex alone is sufficient to bind export factor NXF1-NXT1 and promote ATPase activity of DDX39B/UAP56 (PubMed: [33191911](http://www.uniprot.org/citations/33191911)). 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/NXF1 pathway (PubMed: [15833825](http://www.uniprot.org/citations/15833825) target="_blank">15833825, PubMed: [15998806](http://www.uniprot.org/citations/15998806) target="_blank">15998806, PubMed: [17190602](http://www.uniprot.org/citations/17190602) target="_blank">17190602). Regulates transcriptional elongation of a subset of genes (PubMed: [22144908](http://www.uniprot.org/citations/22144908) target="_blank">22144908). Involved in genome stability by preventing co-transcriptional R-loop formation (By similarity). May play a role in hair cell formation, hence may be involved in hearing (By similarity).

Cellular Location

[Isoform 1]: Nucleus speckle. Nucleus, nucleoplasm. Nucleus matrix. Cytoplasm. Note=Can shuttle between the nucleus and cytoplasm. Nuclear localization is required for induction of apoptotic cell death. Translocates to the cytoplasm during the early phase of apoptosis execution

Tissue Location

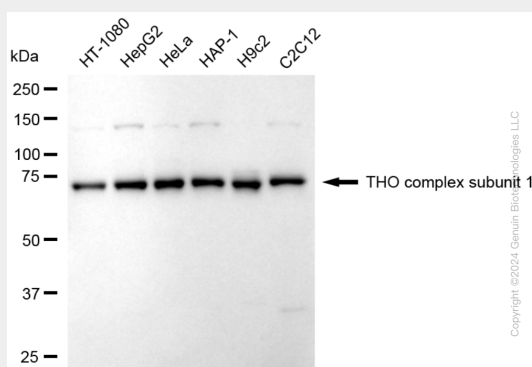
Ubiquitous. Expressed in various cancer cell lines. Expressed at very low levels in normal breast epithelial cells and highly expressed in breast tumors. Expression is strongly associated with an aggressive phenotype of breast tumors and expression correlates with tumor size and the metastatic state of the tumor progression

KD-Validated Anti-THO Complex Subunit 1 Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KD-Validated Anti-THO Complex Subunit 1 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-THO complex subunit 1 antibody (Cat#AGI1763). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-THO complex subunit 1 antibody (Cat#AGI1763, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

