THOC1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	THOC1, Polyclonal Antibody
Full Product Name	THOC1, CT (THOC1, HPR1, THO complex subunit 1, Nuclear matrix protein p84, hTREX84) (MaxLight 550)
Product Gene Name	anti-THOC1 antibody
Product Synonym Names	THOC1; HPR1; THO complex subunit 1; Nuclear matrix protein p84; hTREX84
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	43,359 Da
OMIM	606930
3D Structure	ModBase 3D Structure for Q96FV9
Immunogen	THOC1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 540-570 amino acids from the C-terminal region of human THOC1.
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-THOC1 antibody	Antibodies; Nuclear Proteins
Applications Tested/Suitable for anti-THOC1 antibody	Western Blot (WB), FLISA
Application Notes for anti-THOC1 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-THOC1 antibody	HPR1 is part of the TREX (transcription/export) complex, which includes TEX1 (MIM 606929), THO2 (MIM 300395), ALY (MIM 604171), and UAP56 (MIM 142560).
Product References and Citations for anti-THOC1 antibody	Davila, S., et al. Genes Immun. 11(3):232-238(2010). Liu, Y., et al. Mol. Psychiatry (2010). In press: Boyne, J.R., et al. PLoS Pathog. 4 (10), E1000194 (2008): Ferreira, M.A., et al. Nat. Genet. 40(9):1056-1058(2008). Yang, J., et al. Ann. Clin. Lab. Sci. 38(2):105-112(2008).
Other Notes	Small volumes of anti-THOC1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for THOC1 purchase	MBS6355433 is an antibody targeting THOC1. Also known as THOC1, CT (THOC1, HPR1, THO complex subunit 1, Nuclear matrix protein p84, hTREX84) (MaxLight 550). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for THOC1. It may not necessarily be applicable to this product.

NCBI GI #	154448889
NCBI GeneID	9984
NCBI Accession #	NP_005122.2
UniProt Primary Accession #	Q96FV9
UniProt Secondary Accession #	Q15219; Q64I72; Q64I73; B2RBP6
UniProt Related Accession #	Q96FV9
GenBank Nucleotide #	NM_005131
NCBI Official Full Name	Homo sapiens THO complex 1 (THOC1), mRNA
NCBI Official Synonym Full Names	THO complex 1
NCBI Official Symbol	THOC1
NCBI Official Synonym Symbols	P84; HPR1; P84N5
UniProt Protein Name	THO complex subunit 1
UniProt Synonym Protein Names	Nuclear matrix protein p84; p84N5; hTREX84
UniProt Gene Name	THOC1
UniProt Synonym Gene Names	HPR1; Tho1; p84N5
UniProt Entry Name	THOC1_HUMAN
NCBI Protein Information	THO complex subunit 1; hTREX84; nuclear matrix protein p84; tho1
UniProt Comments for THOC1	Tho1: a protein associated the nuclear matrix. Part of the TREX (transcription/export) complex. The TREX complex is recruited to transcribed genes and travels with the RNA polymerase during elongation. It may physically link proteins that function in transcription and in RNA export. Protein type: Spliceosome Chromosomal Location of Human Ortholog: 18p11.32 Cellular Component: nucleoplasm; intercellular bridge; nuclear matrix; cytoplasm; nuclear speck; nucleus Molecular Function: protein binding; DNA binding; RNA binding Biological Process: RNA processing; mRNA export from nucleus; transcription, DNA-dependent; negative regulation of isotype switching to IgA isotypes; apoptosis; RNA splicing; positive regulation of RNA elongation; regulation of DNA recombination; intronless viral mRNA export from host nucleus; signal transduction; mRNA processing; regulation of RNA elongation; replication fork processing
Research Articles on THOC1	**1.** In humans, high THOC1 protein expression associates with prostate cancer aggressiveness and recurrence. Thus, THOC1 protein is a molecular marker that may improve the identification of aggressive prostate cancers, potentially reducing overtreatment.
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