10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

THOC3 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17859a

Product Information

Application	WB, E
Primary Accession	Q96J01
Other Accession	Q8VE80, Q29RH4, NP_115737.1
Reactivity	Human
Predicted	Bovine, Mouse, Rat, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB38030
Calculated MW	38772
Antigen Region	71-98

Additional Information

Gene ID	84321
Other Names	THO complex subunit 3, Tho3, TEX1 homolog, hTREX45, THOC3
Target/Specificity	This THOC3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 71-98 amino acids from the N-terminal region of human THOC3.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	THOC3 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	THOC3
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, PubMed:15998806, PubMed:17190602). Required for efficient export of polyadenylated RNA and spliced mRNA (PubMed:23222130). The THOC1-THOC2-THOC3 core complex alone is sufficient to bind export factor NXF1-NXT1 and promote ATPase activity of DDX39B (PubMed: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, PubMed:15998806, PubMed:17190602).

Cellular Location Nucleus. Nucleus speckle

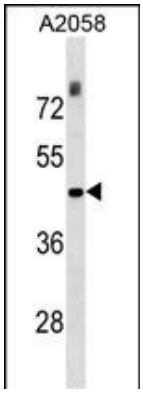
Background

TEX1 is part of the TREX (transcription/export) complex, which includes THO2 (MIM 300395), HPR1 (MIM 606930), ALY (MIM 604171), and UAP56 (MIM 142560).

References

Boyne, J.R., et al. PLoS Pathog. 4 (10), E1000194 (2008) :
Cheng, H., et al. Cell 127(7):1389-1400(2006)
Masuda, S., et al. Genes Dev. 19(13):1512-1517(2005)
Guo, S., et al. Cancer Res. 65(8):3011-3016(2005)
Strasser, K., et al. Nature 417(6886):304-308(2002)

Images



THOC3 Antibody (N-term) (Cat. #AP17859a) western blot analysis in A2058 cell line lysates (35ug/lane).This demonstrates the THOC3 antibody detected the THOC3 protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.