

Product name:	ALY Rabbit Polyclonal Antibody
Cat number:	ABN06818
Conjugate:	Unconjugated
Size:	100µL
Clone:	Polyclonal
Concentration:	1mg/ml
Host:	Rabbit
Isotype:	IgG
Immunogen:	The antiserum was produced against synthesized peptide derived from human THOC4. AA range:121-170
Reactivity:	Human,Mouse,Rat
Applications:	WB 1:500-1:2000,ELISA 1:5000-1:20000
Molecular Weight:	27kDa
Purification:	Affinity purification
Form:	Liquid
Buffer:	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Storage:	Store at 4°C short term. Aliquot and store at -20°C for 12 months. Avoid freeze/thaw cycles.

Background:

The protein encoded by this gene is a heat stable, nuclear protein and functions as a molecular chaperone. It is thought to regulate dimerization, DNA binding, and transcriptional activity of basic region-leucine zipper (bZIP) proteins. [provided by RefSeq, Jul 2008],disease:Antibodies against THOC4 are found in sera of patients with systemic lupus erythematosus (SLE).,function:Acts as chaperone and promotes the dimerization of transcription factors containing basic leucine zipper (bZIP) domains and thereby promotes transcriptional activation. Plays a role in mRNA processing and export. May function as scaffold that mediates interactions between proteins and/or RNA. Integral part of the THO/TREX complex that is recruited to transcribed genes and travels with the RNA polymerase during elongation. Is part of the exon junction complex that remains associated with spliced mRNA and plays an important role in mRNA export and nonsense-mediated RNA decay. Directs mRNA derived from Herpes simplex virus intron-less genes to the NXF1-mediated export pathway.,PTM:Arg-50 and Arg-204 are dimethylated, probably to asymmetric dimethylarginine.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Contains 1 RRM (RNA recognition motif) domain.,subcellular location:Travels to the cytoplasm as part of the exon junction complex (EJC) bound to mRNA.,subunit:Homomultimer. Binds LEF1 and RUNX1 (By similarity). Is part of several complexes involved in mRNA processing and export. Part of the heteromultimeric THO/TREX complex containing THOC1, THOC2, THOC3, THOC4 and UAP56. Associates with the spliceosome. Binds NXF1 and RBM8A directly and is part of the exon junction complex (EJC) containing NCBP1, NCBP2, RBM8A, SRRM1, NXF1, RENT2, RENT3B and THOC4 (By similarity). Found in a mRNA splicing-dependent exon junction complex (EJC) with DEK, RBM8A, RNPS1, SRRM1 and THOC4. Binds UL54 from Herpes simplex type 1 (strain KOS). Found in a mRNP complex with RENT3A and RENT3B. Interacts with BAT1, RBM8A, RNPS1 and SRRM1. Identified in the spliceosome C complex, at least composed of AQR, ASCC3L1, C19orf29, CDC40, CDC5L, CRNKL1, DDX23, DDX41, DDX48, DDX5, DGCR14, DHX35, DHX38, DHX8, EFTUD2, FRG1, GPATC1, HNRPA1, HNRPA2B1, HNRPA3, HNRPC, HNRPF, HNRPH1, HNRPK, HNRPM, HNRPR, HNRPU, KIAA1160, KIAA1604, LSM2, LSM3, MAGOH, MORG1, PABPC1, PLRG1, PNN, PPIE, PPIL1, PPIL3, PPWD1, PRPF19, PRPF4B, PRPF6, PRPF8, RALY, RBM22, RBM8A, RBMX, SART1, SF3A1, SF3A2, SF3A3, SF3B1, SF3B2, SF3B3, SFRS1, SKIV2L2, SNRPA1, SNRPB, SNRPB2, SNRPD1, SNRPD2, SNRPD3, SNRPE, SNRPF, SNRPG, SNW1, SRRM1, SRRM2, SYF2, SYNCRIP, TFIP11, THOC4, U2AF1, WDR57, XAB2 and ZCCHC8.,