Anti-TUTase antibody

Description	Rabbit polyclonal to TUTase.

Model	STJ96149
Host	Rabbit
Reactivity	Human
Applications	ELISA, IHC, WB
Immunogen	Synthesized peptide derived from human TUTase
Immunogen Region	260-340 aa, Internal
Gene ID	64852
Gene Symbol	TUT1
Dilution range	WB 1:500-1:2000IHC 1:100-1:300ELISA 1:20000
Specificity	TUTase Polyclonal Antibody detects endogenous levels of TUTase protein.
Tissue Specificity	Widely expressed.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Speckle targeted PIP5K1A-regulated poly A polymerase Star-PAP RNA-binding motif protein 21 RNA-binding protein 21 U6 snRNA-specific terminal uridylyltransferase 1 U6-TUTase
Molecular Weight	95 kDa
Clonality	Polyclonal

Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:26184OMIM:610641
Alternative Names	Speckle targeted PIP5K1A-regulated poly A polymerase Star-PAP RNA-binding motif protein 21 RNA-binding protein 21 U6 snRNA-specific terminal uridylyltransferase 1 U6-TUTase
Function	Poly(A) polymerase that creates the 3'-poly(A) tail of specific pre-mRNAs. Localizes to nuclear speckles together with PIP5K1A and mediates polyadenylation of a select set of mRNAs, such as HMOX1. In addition to polyadenylation, it is also required for the 3'-end cleavage of pre-mRNAs: binds to the 3'UTR of targeted pre-mRNAs and promotes the recruitment and assembly of the CPSF complex on the 3'UTR of pre-mRNAs. In addition to adenylyltransferase activity, also has uridylyltransferase activity. However, the ATP ratio is higher than UTP in cells, suggesting that it functions primarily as a poly(A) polymerase. Acts as a specific terminal uridylyltransferase for U6 snRNA in vitro: responsible for a controlled elongation reaction that results in the restoration of the four 3'-terminal UMP-residues found in newly transcribed U6 snRNA. Not involved in replication-dependent histone mRNA degradation.
Cellular Localization	Nucleus, nucleolus Nucleus speckle
Post-translational Modifications	Phosphorylated by CK1 in the proline-rich (Pro-rich) region.