

PAPD5 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18427a

Specification

PAPD5 Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	Q8NDF8
Other Accession	NP_001035375.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	1-30

PAPD5 Antibody (N-term) - Additional Information

Gene ID 64282

Other Names

Non-canonical poly(A) RNA polymerase PAPD5, PAP-associated domain-containing protein 5, Terminal uridylyltransferase 3, TUTase 3, Topoisomerase-related function protein 4-2, TRF4-2, PAPD5

Target/Specificity

This PAPD5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human PAPD5.

Dilution

WB~~1:1000

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

PAPD5 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

PAPD5 Antibody (N-term) - Protein Information

Name TENT4B ([HGNC:30758](#))

Function Terminal nucleotidyltransferase that catalyzes preferentially the transfer of ATP and GTP

on RNA 3' poly(A) tail creating a heterogeneous 3' poly(A) tail leading to mRNAs stabilization by protecting mRNAs from active deadenylation (PubMed:[21788334](#), PubMed:[30026317](#)). Also functions as a catalytic subunit of a TRAMP-like complex which has a poly(A) RNA polymerase activity and is involved in a post-transcriptional quality control mechanism. Polyadenylation with short oligo(A) tails is required for the degradative activity of the exosome on several of its nuclear RNA substrates. Doesn't need a cofactor for polyadenylation activity (in vitro) (PubMed:[21788334](#), PubMed:[21855801](#)). Required for cytoplasmic polyadenylation of mRNAs involved in carbohydrate metabolism, including the glucose transporter SLC2A1/GLUT1 (PubMed:[28383716](#)). Plays a role in replication-dependent histone mRNA degradation, probably through terminal uridylation of mature histone mRNAs. May play a role in sister chromatid cohesion (PubMed:[18172165](#)). Mediates 3' adenylation of the microRNA MIR21 followed by its 3'-to-5' trimming by the exoribonuclease PARN leading to degradation (PubMed:[25049417](#)). Mediates 3' adenylation of H/ACA box snoRNAs (small nucleolar RNAs) followed by its 3'-to-5' trimming by the exoribonuclease PARN which enhances snoRNA stability and maturation (PubMed:[22442037](#)).

Cellular Location

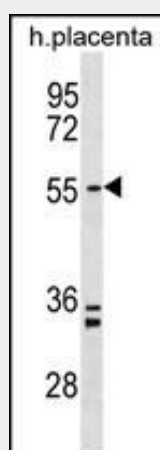
Nucleus. Nucleus, nucleolus. Cytoplasm Note=Predominantly expressed in the cytoplasm (PubMed:[18172165](#))

PAPD5 Antibody (N-term) - 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](#)

PAPD5 Antibody (N-term) - Images



PAPD5 Antibody (N-term) (Cat. #AP18427a) western blot analysis in human placenta tissue lysates (35ug/lane). This demonstrates the PAPD5 Antibody detected the PAPD5 protein (arrow).

PAPD5 Antibody (N-term) - Background

PAPD5 plays a role in replication-dependent histone mRNA degradation. May be involved in the

terminal uridylation of mature histone mRNAs before their degradation is initiated. DNA polymerase, probably involved in DNA repair. May play a role in sister chromatid cohesion.

PAPD5 Antibody (N-term) - References

Rose, J. Phd, et al. Mol. Med. (2010) In press :
Mullen, T.E., et al. Genes Dev. 22(1):50-65(2008)
Walowsky, C., et al. J. Biol. Chem. 274(11):7302-7308(1999)