

PAPD5 (aa497-510) Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF3550a

Specification

PAPD5 (aa497-510) Antibody (internal region) - Product Information

Application	WB
Primary Accession	Q8NDF8
Other Accession	NP_001035374.2 , NP_001035375.2 , 64282 , 214627 (mouse) , 307745 (rat)
Reactivity	Mouse, Rat
Predicted	Human, Cow
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	63267

PAPD5 (aa497-510) Antibody (internal region) - Additional Information

Gene ID 64282

Other Names

Non-canonical poly(A) RNA polymerase PAPD5, 2.7.7.19, PAP-associated domain-containing protein 5, Terminal uridylyltransferase 3, TUTase 3, Topoisomerase-related function protein 4-2, TRF4-2, PAPD5

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

PAPD5 (aa497-510) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

PAPD5 (aa497-510) Antibody (internal region) - 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:<a href="http://www.uniprot.org/citations/30026317"

target="_blank">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

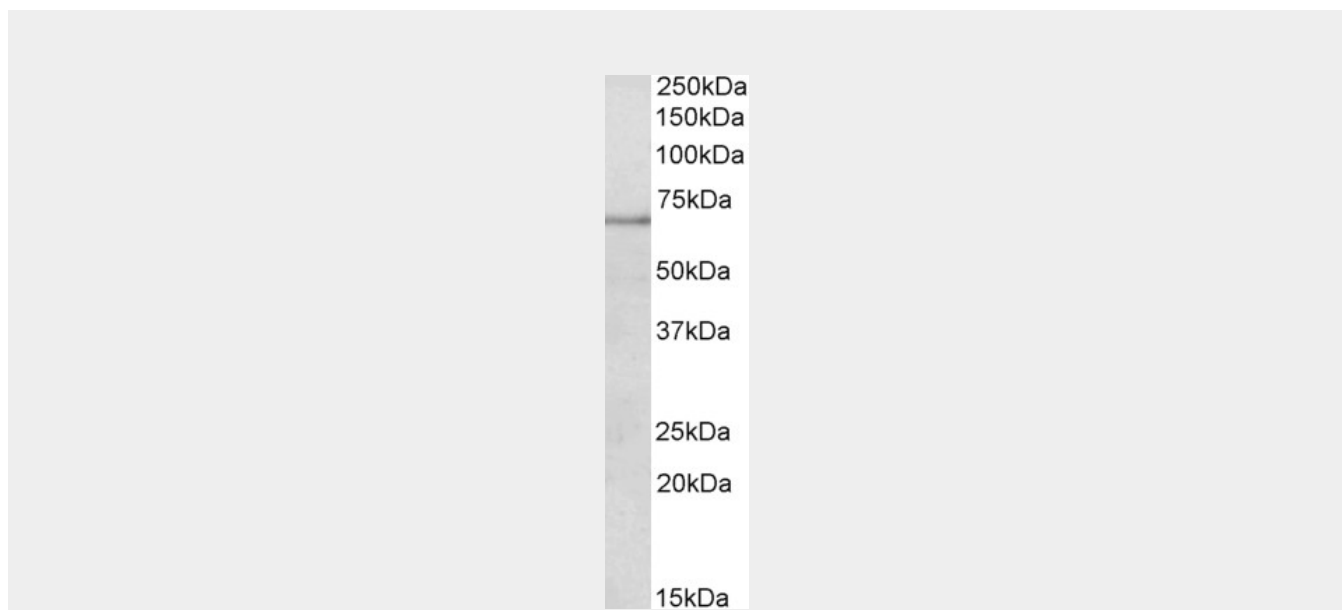
Nucleus. Nucleus, nucleolus. Cytoplasm Note=Predominantly expressed in the cytoplasm (PubMed:18172165)

PAPD5 (aa497-510) Antibody (internal region) - 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 (aa497-510) Antibody (internal region) - Images



AF3550a (0.2 µg/ml) staining of Mouse Spleen lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

PAPD5 (aa497-510) Antibody (internal region) - Background

This antibody is expected to recognize both reported isoforms (NP_001035374.2; NP_001035375.2).

PAPD5 (aa497-510) Antibody (internal region) - References

The topoisomerase-related function gene TRF4 affects cellular sensitivity to the antitumor agent camptothecin. Walowsky C, Fitzhugh DJ, Castaño IB, Ju JY, Levin NA, Christman MF. J Biol Chem. 1999 Mar 12;274(11):7302-8. PMID: 10066793