PAPD5 Rabbit pAb

CatalogNo: YN7173

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse

Applications
- WB

MW
- 63kD (Calculated)

Isotype
- IgG

Recommended Dilution Ratios

WB 1:500-2000

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	Synthesized peptide derived from human PAPD5
Specificity	This antibody detects endogenous levels of PAPD5 at Human, Mouse

Target Information

Gene name	PAPD5

Protein Name PAP-associated domain-containing protein 5 (Terminal uridylyltransferase 3) (TUTase 3) (Topoisomerase-related function protein 4-2) (TRF4-2)

Organism	Gene ID	UniProt ID
Human	64282;	Q8NDF8;
Mouse	214627;	Q68ED3;

Cellular Localization Nucleus . Nucleus, nucleolus . Cytoplasm . Predominantly expressed in the cytoplasm (PubMed:18172165).

Function Terminal nucleotidyltransferase that catalyzes preferentially the transfert 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 . 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) . Required for cytoplasmic polyadenylation of mRNAs involved in carbohydrate metabolism, including the glucose transporter SLC2A1/GLUT1 . 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 . Mediates 3' adenylation of the microRNA MIR21 followed by its 3'-to-5' trimming by the exoribonuclease PARN leading to degradation . 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 .

Validation Data

Contact information

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Please scan the QR code to access additional product information:
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