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TENT4B Rabbit pAb

Catalog # AP98389

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q8NDF8
Other Accession	Q8NDF8
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	63267
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human TRF4-2
Epitope Specificity	51-150/572
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the DNA polymerase type-B-like family.Contains 1 PAP-associated domain.
SUBUNIT	Component of a nucleolar TRAMP-like complex, an ATP-dependent exosome regulatory complex consisting of an helicase
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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

Additional Information

Gene ID	64282
Other Names	PAPD5; TRF4-2; TUT3; PAPD5_HUMAN; TENT4B; Non-canonical poly(A) RNA polymerase PAPD5; PAP-associated domain-containing protein 5; Terminal guanylyltransferase; Terminal uridylyltransferase 3 (TUTase 3); Topoisomerase-related function protein 4-2 (TRF4-2); GLD4; terminal nucleotidyltransferase 4B; PAP associated domain containing 5; poly(A) RNA polymerase D5, non-canonical; TUTase3
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.