PAPD7 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PAPD7, Polyclonal Antibody
Full Product Name	PAPD7 Antibody
Product Gene Name	anti-PAPD7 antibody
Product Synonym Names	DNA polymerase kappa; DNA polymerase sigma; LAK 1; LAK-1; LAK1; OTTHUMP00000115520; PAP associated domain containing 7; PAP-associated domain-containing protein 7; Papd7; PAPD7_HUMAN; POLK; POLS; Polymerase (DNA directed) sigma; Polymerase DNA Directed Sigma; Terminal uridylyltransferase 5; Topoisomerase related function protein 4 1; Topoisomerase-related function protein 4-1; TRF4 1; TRF4; TRF4-1; TRF41; TUTase 5; TUTASE5
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Concentration	1mg/ml (lot specific)
Specificity	PAPD7 Antibody detects endogenous levels of PAPD7.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.
Antibody/Peptide Pairs	PAPD7 peptide (MBS9633447) is used for blocking the activity of PAPD7 antibody (MBS9631064)
Molecular Weight	59,874 Da
OMIM	605198
3D Structure	ModBase 3D Structure for Q5XG87
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide derived from human PAPD7.
Conjugation	Unconjugated
Similarity	Belongs to the DNA polymerase type-B-like family.
Subunit Structure	Component of a nuclear TRAMP-like complex, an ATP-dependent exosome regulatory complex consisting of a helicase (MTREX), an oligadenylate polymerase (TENT4B or TENT4A), and a substrate specific RNA-binding factor (ZCCHC7 or ZCCHC8). Several TRAMP-like complexes exist with specific compositions and are associated with nuclear, or nucleolar RNA exosomes.
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. Has no terminal uridylyltransferase activity, and does not play a role in replication-dependent histone mRNA degradation via uridylation.

Note	Excluded from nucleolus, weak staining detected in the cytoplasm.
Product Categories/Family for anti-PAPD7 antibody	Cytoplasm; Nucleus; Nucleoplasm; Primary
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PAPD7 antibody	ELISA (EIA)(peptide)
Application Notes for anti-PAPD7 antibody	ELISA(peptide): 1:20000-1:40000
Related Product Information for anti-PAPD7 antibody	MBS9631064 is an antibody targeting PAPD7. Also known as PAPD7 Antibody. Reactive in Human, Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-PAPD7 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PAPD7. It may not necessarily be applicable to this product.

NCBI GI #	284507291
NCBI GeneID	11044
NCBI Accession #	NP_008930.1
UniProt Primary Accession #	Q5XG87
UniProt Secondary Accession #	O43289; Q17RZ1; Q9Y6C1; A8K1E2; M1JCE6
UniProt Related Accession #	Q5XG87
GenBank Nucleotide #	NM_006999
NCBI Official Full Name	Homo sapiens PAP associated domain containing 7 (PAPD7), transcript variant 1, mRNA
NCBI Official Synonym Full Names	PAP associated domain containing 7
NCBI Official Symbol	PAPD7
NCBI Official Synonym Symbols	LAK1; POLK; POLS; TRF4; LAK-1; TRF41; TRF4-1; TUTASE5
UniProt Protein Name	Non-canonical poly(A) RNA polymerase PAPD7
UniProt Synonym Protein Names	DNA polymerase sigma; LAK-1; PAP-associated domain-containing protein 7; TRAMP-like complex polyadenylate polymerase; Terminal uridylyltransferase 5; TUTase 5; Topoisomerase-related function protein 4-1; TRF4-1
UniProt Gene Name	PAPD7
UniProt Synonym Gene Names	POLS; TRF4; TUTase 5; TRF4-1
UniProt Entry Name	PAPD7_HUMAN
NCBI Protein Information	non-canonical poly(A) RNA polymerase PAPD7; non-canonical poly(A) RNA polymerase PAPD7; DNA polymerase kappa; DNA polymerase sigma; PAP-associated domain-containing protein 7; TRAMP-like complex polyadenylate polymerase; TUTase 5; polymerase (DNA directed
NCBI Summary for PAPD7	The protein encoded by this gene is a DNA polymerase that is likely involved in DNA repair. In addition, the encoded protein may be required for sister chromatid adhesion. Alternatively spliced transcript variants that encode different isoforms have been described. [provided by RefSeq, Jan 2010]

UniProt Comments for PAPD7	POLS: DNA polymerase, probably involved in DNA repair. May play a role in sister chromatid cohesion. Does not play a role in replication-dependent histone mRNA degradation. Belongs to the DNA polymerase type-B-like family. Protein type: EC 2.7.7.19; DNA repair, damage; DNA replication; Transferase Chromosomal Location of Human Ortholog: 5p15 Cellular Component: nucleoplasm; cytoplasm; nucleus Molecular Function: polynucleotide adenylyltransferase activity; DNA binding; SMC protein binding; metal ion binding; DNA-directed DNA polymerase activity Biological Process: response to drug; cell division; mitotic chromosome condensation; double-strand break repair; sister chromatid cohesion
Research Articles on PAPD7	**1.** These results suggest that PAPD7 I is the major and active isoform of PAPD7 expressed in cells.
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