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PAPOLG Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13183b

Product Information

Application	WB, E
Primary Accession	Q9BWT3
Other Accession	NP_075045.2
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB32820
Calculated MW	82803
Antigen Region	685-714

Additional Information

Gene ID	64895
Other Names	Poly(A) polymerase gamma, PAP-gamma, Neo-poly(A) polymerase, Neo-PAP, Polynucleotide adenylyltransferase gamma, SRP RNA 3'-adenylating enzyme, PAPOLG, PAP2, PAPG
Target/Specificity	This PAPOLG antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 685-714 amino acids from the C-terminal region of human PAPOLG.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
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	PAPOLG Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PAPOLG (HGNC:14982)
Synonyms	PAP2, PAPG

Function	Responsible for the post-transcriptional adenylation of the 3'-terminal of mRNA precursors and several small RNAs including signal recognition particle (SRP) RNA, nuclear 7SK RNA, U2 small nuclear RNA, and ribosomal 5S RNA.
Cellular Location	Nucleus
Tissue Location	Expressed predominantly in testis, and weakly in other tissues. Overexpressed in several tumors

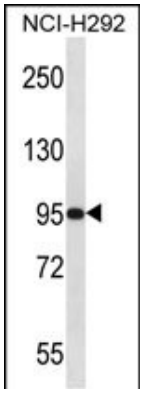
Background

This gene encodes a member of the poly(A) polymerase family which catalyzes template-independent extension of the 3' end of a DNA/RNA strand. This enzyme shares 60% identity to the well characterized poly(A) polymerase II (PAPII) at the amino acid level. These two enzymes have similar organization of structural and functional domains. This enzyme is exclusively localized in the nucleus and exhibits both nonspecific and CPSF (cleavage and polyadenylation specificity factor)/AAUAAA-dependent polyadenylation activity. This gene is located on chromosome 2 in contrast to the PAPII gene, which is located on chromosome 14.

References

Lee, Y.S., et al. J. Biol. Chem. 285(36):28105-28116(2010)
Beausoleil, S.A., et al. Proc. Natl. Acad. Sci. U.S.A. 101(33):12130-12135(2004)
Kyriakopoulou, C.B., et al. J. Biol. Chem. 276(36):33504-33511(2001)
Topalian, S.L., et al. Mol. Cell. Biol. 21(16):5614-5623(2001)
Perumal, K., et al. J. Biol. Chem. 276(24):21791-21796(2001)

Images



PAPOLG Antibody (C-term) (Cat. #AP13183b) western blot analysis in NCI-H292 cell line lysates (35ug/lane).This demonstrates the PAPOLG antibody detected the PAPOLG protein (arrow).

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