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PAPD1 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP8847a

Specification

PAPD1 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q9NVV4

PAPD1 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 55149

Other Names
Poly(A) RNA polymerase, mitochondrial, PAP, PAP-associated domain-containing protein 1, Polynucleotide adenylyltransferase, Terminal uridylyltransferase 1, TUTase 1, mtPAP, MTPAP, PAPD1

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP8847a was selected from the N-term region of human PAPD1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PAPD1 Antibody (N-term) Blocking Peptide - Protein Information

Name MTPAP

Synonyms PAPD1

Function
Polymerase that creates the 3' poly(A) tail of mitochondrial transcripts. Can use all four nucleotides, but has higher activity with ATP and UTP (in vitro). 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. Might be responsible for the creation of some UAA stop codons which are not encoded in mtDNA.

Cellular Location
Cytoplasm. Mitochondrion

Tissue Location
Ubiquitous, with stronger expression in tissues with high energy requirements: heart, brain, and skeletal muscle

PAPD1 Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

PAPD1 Antibody (N-term) Blocking Peptide - Images

PAPD1 Antibody (N-term) Blocking Peptide - Background

PAPD1 is polymerase that creates the 3' poly(A) tail of mitochondrial transcripts. 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. Might be responsible for the creation of some UAA stop codons which are not encoded in mtDNA.

PAPD1 Antibody (N-term) Blocking Peptide - References

Chapuis,J.,et.al.,Mol. Psychiatry 14 (11), 1004-1016 (2009)