

# Mouse Pan3 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP13932b

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">Q640Q5</a>
<b>Other Accession</b>	<a href="#">Q58A45</a> , <a href="#">NP_082567.3</a>
<b>Reactivity</b>	Human, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB34660
<b>Calculated MW</b>	95451
<b>Antigen Region</b>	727-755

## Additional Information

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<b>Gene ID</b>	72587
<b>Other Names</b>	PAB-dependent poly(A)-specific ribonuclease subunit PAN3 {ECO:0000255   HAMAP-Rule:MF_03181}, PAB1P-dependent poly(A)-nuclease {ECO:0000255   HAMAP-Rule:MF_03181}, PAN deadenylation complex subunit 3 {ECO:0000255   HAMAP-Rule:MF_03181}, Pan3
<b>Target/Specificity</b>	This Mouse Pan3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 727-755 amino acids from the C-terminal region of mouse Pan3.
<b>Dilution</b>	WB~~1:1000 E~~Use at an assay dependent concentration.
<b>Format</b>	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.
<b>Storage</b>	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.
<b>Precautions</b>	Mouse Pan3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	Pan3 {ECO:0000255   HAMAP-Rule:MF_03181}
<b>Function</b>	Regulatory subunit of the poly(A)-nuclease (PAN) deadenylation complex,

one of two cytoplasmic mRNA deadenylases involved in general and miRNA-mediated mRNA turnover. PAN specifically shortens poly(A) tails of RNA and the activity is stimulated by poly(A)-binding protein (PABP). PAN deadenylation is followed by rapid degradation of the shortened mRNA tails by the CCR4-NOT complex. Deadenylated mRNAs are then degraded by two alternative mechanisms, namely exosome-mediated 3'-5' exonucleolytic degradation, or deadenylation-dependent mRNA decapping and subsequent 5'-3' exonucleolytic degradation by XRN1. PAN3 acts as a regulator for PAN activity, recruiting the catalytic subunit PAN2 to mRNA via its interaction with RNA and PABP, and to miRNA targets via its interaction with GW182 family proteins.

## Cellular Location

Cytoplasm, P-body {ECO:0000255|HAMAP- Rule:MF\_03181, ECO:0000269|PubMed:18625844} [Isoform 3]: Cytoplasm {ECO:0000250|UniProtKB:Q58A45}

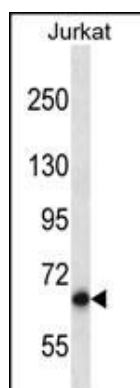
## Background

Functions in cytoplasmic mRNA decay. As part of the Pan nuclease complex, recruits polyadenylate-binding protein which in turn stimulates PAN2 nuclease activity (By similarity).

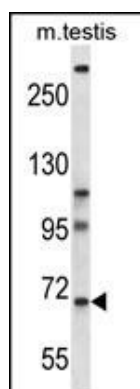
## References

Zheng, D., et al. J. Cell Biol. 182(1):89-101(2008)  
 Siddiqui, N., et al. J. Biol. Chem. 282(34):25067-25075(2007)  
 Nishimura, M., et al. DNA Res. 11(5):315-323(2004)  
 Zambrowicz, B.P., et al. Proc. Natl. Acad. Sci. U.S.A. 100(24):14109-14114(2003)  
 Hansen, J., et al. Proc. Natl. Acad. Sci. U.S.A. 100(17):9918-9922(2003)

## Images



Mouse Pan3 Antibody (C-term) (Cat. #AP13932b) western blot analysis in Jurkat cell line lysates (35ug/lane). This demonstrates the Pan3 antibody detected the Pan3 protein (arrow).



Mouse Pan3 Antibody (C-term) (Cat. #AP13932b) western blot analysis in mouse testis tissue lysates (35ug/lane). This demonstrates the Pan3 antibody detected the Pan3 protein (arrow).

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