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Mouse Pan3 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13932b

Product Information

Application	WB, E
Primary Accession	Q640Q5
Other Accession	Q58A45, NP_082567.3
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB34660
Calculated MW	95451
Antigen Region	727-755

Additional Information

Gene ID	72587
Other Names	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
Target/Specificity	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.
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	Mouse Pan3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Pan3 {ECO:0000255|HAMAP-Rule:MF_03181}

Function	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}

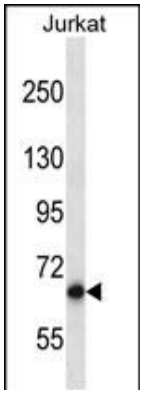
Background

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).

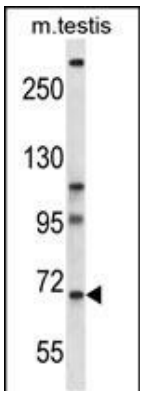
References

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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)
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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'.