

**Mouse Pan3 Antibody (C-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP13932b****Specification**

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**Mouse Pan3 Antibody (C-term) Blocking peptide - Product Information**Primary Accession [Q640Q5](#)**Mouse Pan3 Antibody (C-term) Blocking peptide - 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**

The synthetic peptide sequence used to generate the antibody AP13932b was selected from the C-term region of Mouse Pan3. 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.

**Mouse Pan3 Antibody (C-term) Blocking peptide - 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}

**Mouse Pan3 Antibody (C-term) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

**Mouse Pan3 Antibody (C-term) Blocking peptide - Images****Mouse Pan3 Antibody (C-term) Blocking peptide - 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).

**Mouse Pan3 Antibody (C-term) Blocking peptide - 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)