

**PAN3 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP4958b****Specification**

---

**PAN3 Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [Q58A45](#)**PAN3 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 255967**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}, hPan3, PAN3 {ECO:0000255|HAMAP-Rule:MF\_03181}

**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.

**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:14583602, ECO:0000269|PubMed:18625844} [Isoform 3]: Cytoplasm

**PAN3 Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**PAN3 Antibody (C-term) Blocking Peptide - Images****PAN3 Antibody (C-term) Blocking Peptide - Background**

PAN3 is functions in cytoplasmic mRNA decay. It is as part of the Pan nuclease complex, recruits polyadenylate-binding protein which in turn stimulates PAN2 nuclease activity.

**PAN3 Antibody (C-term) Blocking Peptide - References**

Uchida, N., et al. J. Biol. Chem. 279(2):1383-1391(2004)