

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

PAN3 Antibody (C-term) Blocking Peptide - Product InformationPrimary 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)