

PAN3 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP4958b

Specification

PAN3 Antibody (C-term) - Product Information

Application	FC, IHC-P, WB,E
Primary Accession	Q58A45
Other Accession	Q640Q5
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	95613
Antigen Region	771-799

PAN3 Antibody (C-term) - 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}

Target/Specificity

This PAN3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 771-799 amino acids from the C-terminal region of human PAN3.

Dilution

FC~~1:10~50
IHC-P~~1:50~100
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

PAN3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

PAN3 Antibody (C-term) - 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

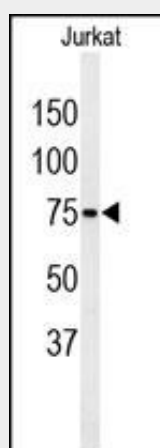
Cytoplasm, P-body {ECO:0000255|HAMAP-Rule:MF_03181, ECO:0000269|PubMed:14583602, ECO:0000269|PubMed:18625844} [Isoform 3]: Cytoplasm

PAN3 Antibody (C-term) - Protocols

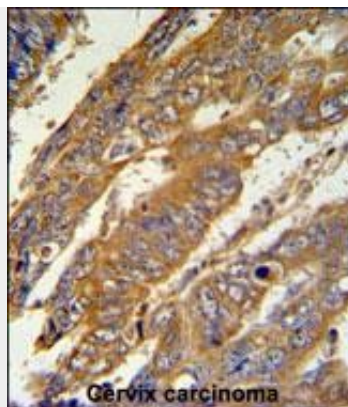
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

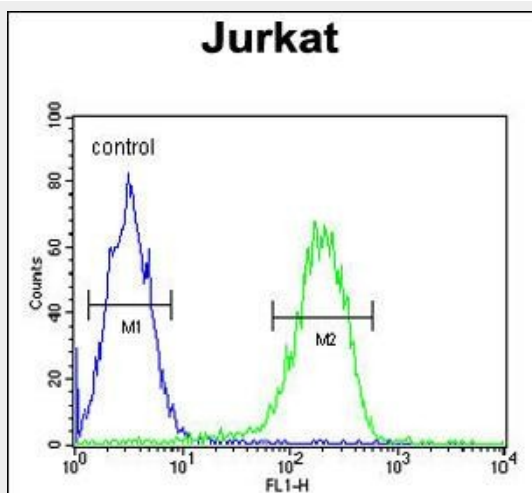
PAN3 Antibody (C-term) - Images



Western blot analysis of PAN3 Antibody (C-term) (Cat. #AP4958b) in Jurkat cell line lysates (35ug/lane). PAN3 (arrow) was detected using the purified Pab.



PAN3 Antibody (C-term) (Cat. #AP4958b) IHC analysis in formalin fixed and paraffin embedded human cervix carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the PAN3 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



PAN3 Antibody (C-term) (Cat. #AP4958b) flow cytometric analysis of Jurkat cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

PAN3 Antibody (C-term) - 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) - References

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