

PAN3 Rabbit pAb

Catalog # AP98905

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q58A45
Other Accession	Q58A45
Reactivity	Mouse
Predicted	Rat, Pig, Human, Rabbit, Chicken, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	95613
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PAN3
Epitope Specificity	541-640/887
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the protein kinase superfamily. Contains 1 protein kinase domain.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	PAN3 (PAN3 Poly(A) Specific Ribonuclease Subunit) is a Protein Coding gene. Among its related pathways are Deadenylation-dependent mRNA decay and Gene Expression. GO annotations related to this gene include transferase activity, transferring phosphorus-containing groups and poly(A)-specific ribonuclease activity.

Additional Information

Gene ID	255967
Other Names	2700050F09Rik; A430027N15Rik; PAN3_HUMAN; PAN3; PAB1P-dependent poly(A)-specific ribonuclease; Poly(A)-nuclease deadenylation complex subunit 3 (PAN deadenylation complex subunit 3); PAN3_MOUSE; poly(A) specific ribonuclease subunit PAN3; PAN3 poly(A) specific ribonuclease subunit homolog (S. cerevisiae); PAN3 poly(A) specific ribonuclease subunit
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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

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