

# USP52/Pan2 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP57822

## Product Information

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<b>Application</b>	WB, IHC-P, IHC-F, IF, ICC, E
<b>Primary Accession</b>	<a href="#">Q504Q3</a>
<b>Reactivity</b>	Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	135368

## Additional Information

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<b>Gene ID</b>	9924
<b>Other Names</b>	PAN2-PAN3 deadenylation complex catalytic subunit PAN2 {ECO:0000255 HAMAP-Rule:MF_03182}, 3.1.13.4 {ECO:0000255 HAMAP-Rule:MF_03182}, Inactive ubiquitin carboxyl-terminal hydrolase 52 {ECO:0000255 HAMAP-Rule:MF_03182}, PAB1P-dependent poly(A)-specific ribonuclease {ECO:0000255 HAMAP-Rule:MF_03182}, Poly(A)-nuclease deadenylation complex subunit 2 {ECO:0000255 HAMAP-Rule:MF_03182}, PAN deadenylation complex subunit 2 {ECO:0000255 HAMAP-Rule:MF_03182}, PAN2 {ECO:0000255 HAMAP-Rule:MF_03182}, KIAA0710, USP52
<b>Dilution</b>	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
<b>Storage</b>	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

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<b>Name</b>	PAN2 {ECO:0000255 HAMAP-Rule:MF_03182}
<b>Synonyms</b>	KIAA0710, USP52
<b>Function</b>	Catalytic 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' exonuclease activity by XRN1. Also acts as an important regulator of the HIF1A-mediated hypoxic response. Required for HIF1A mRNA stability independent of poly(A) tail length regulation.

**Cellular Location**

Cytoplasm. Cytoplasm, P-body {ECO:0000255|HAMAP-Rule:MF\_03182, ECO:0000269|PubMed:18625844, ECO:0000269|PubMed:23398456}. Nucleus {ECO:0000255|HAMAP-Rule:MF\_03182, ECO:0000269|PubMed:16284618}. Note=Shuttles between nucleus and cytoplasm. {ECO:0000255|HAMAP-Rule:MF\_03182, ECO:0000269|PubMed:16284618}

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.