

PAN2 Rabbit pAb

CatalogNo: YN6014

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB

MW

- 132kD (Calculated)

Isotype

- IgG

Recommended Dilution Ratios

WB 1:500-2000

Storage

Storage* -15°C to -25°C/1 year(Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized peptide derived from human PAN2

Specificity This antibody detects endogenous levels of PAN2 at Human, Mouse, Rat

Target Information

Gene name PAN2 KIAA0710 USP52

Protein Name PAB-dependent poly(A)-specific ribonuclease subunit 2 (hPan2) (Inactive ubiquitin carboxyl-terminal hydrolase 52)

Organism	Gene ID	UniProt ID
Human	9924 ;	Q504Q3 ;
Mouse	103135 ;	Q8BGF7 ;
Rat	408200 ;	Q6IE70 ;

Cellular Localization Cytoplasm . Cytoplasm, P-body . Nucleus . Shuttles between nucleus and cytoplasm. .

Function 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' exonucleolytic degradation 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.

Validation Data

Contact information

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PAN2 Rabbit pAb

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