Recombinant Mouse Pan2 Protein, MYC/DDK-tagged

Cat. No. Pan2-224M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of full-length mouse PAN2 poly(A) specific ribonuclease subunit (Pan2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	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 deadenlyation-dependent mRNA decaping 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.
Molecular Mass	135.3 kDa
Purity	>80%, as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 ug/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Pan2 PAN2 poly(A) specific ribonuclease subunit [Mus musculus (house mouse)]
Official Symbol	Pan2
Synonyms	Pan2; PAN2 poly(A) specific ribonuclease subunit; Usp52; AI047843; AW742773; mKIAA0710; 1200014O24Rik; PAN2-PAN3 deadenylation complex catalytic subunit Pan2; AN2 polyA specific ribonuclease subunit homolog; PAB-dependent poly(A)-specific ribonuclease subunit 2; PAB-dependent poly(A)-specific ribonuclease subunit PAN2; PAB1P-dependent poly(A)-nuclease; PAN deadenylation complex catalytic subunit 2; PAN2 polyA specific ribonuclease subunit homolog; inactive ubiquitin carboxyl-terminal hydrolase 52; poly(A)-nuclease deadenylation complex subunit 2; ubiquitin specific peptidase 52; ubiquitin specific protease 52; EC 3.1.13.4
Gene ID	103135
mRNA Refseq	NM_133992
Protein Refseq	NP_598753
UniProt ID	Q8BGF7

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