

Product datasheet for **AP52942PU-N**

NSUN2 (Center) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	ELISA: 1/1000. Western blot: 1/100 - 1/500.
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	KLH conjugated synthetic peptide between 426-455 amino acids from the Central region of human NSUN2
Specificity:	This antibody reacts to NSUN2.
Formulation:	PBS State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.09% (W/V) sodium azide
Concentration:	lot specific
Purification:	Affinity chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	86471 Da
Gene Name:	NOP2/Sun RNA methyltransferase family member 2
Database Link:	Entrez Gene 28114 Mouse Entrez Gene 54888 Human Q08J23



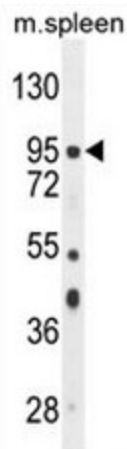
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Background:

Maturation of cytoplasmic tRNAs includes splicing of introns, which are located 1 nucleotide 3-prime from the anticodon in all intron-containing tRNA genes. In tRNA-leu(CAA), the first position of the anticodon, C34, is converted to 5-methylcytosine, a modification necessary to stabilize the anticodon-codon pairing and correctly translate the mRNA. NSUN2 encodes a methyltransferase that catalyzes the intron-dependent formation of 5-methylcytosine at C34 of tRNA-leu(CAA) (Brzezicha et al., 2006 [PubMed 17071714])

Synonyms:

SAKI, TRM4, tRNA (cytosine-5-)-methyltransferase NSUN2

Product images:

NSUN2 Antibody (Center) western blot analysis in mouse spleen tissue lysates (35ug/lane). This demonstrates the NSUN2 antibody detected the NSUN2 protein (arrow).