



# NSUN2 rabbit pAb

<b>Catalog No</b>	BYab-08206
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human; Mouse
<b>Applications</b>	WB
<b>Gene Name</b>	NSUN2 SAKI TRM4
<b>Protein Name</b>	NSUN2
<b>Immunogen</b>	Synthesized peptide derived from human NSUN2 AA range: 658-708
<b>Specificity</b>	This antibody detects endogenous levels of NSUN2 at Human/Mouse
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.321% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
<b>Dilution</b>	WB 1:500-2000
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	tRNA (cytosine(34)-C(5))-methyltransferase (EC 2.1.1.203) (Myc-induced SUN domain-containing protein) (Misu) (NOL1/NOP2/Sun domain family member 2) (Substrate of AIM1/Aurora kinase B) (tRNA (cytosine-5-)-methyltransferase) (tRNA methyltransferase 4 homolog) (hTrm4)
<b>Observed Band</b>	85kD
<b>Cell Pathway</b>	Nucleus, nucleolus . Cytoplasm . Mitochondrion . Cytoplasm, cytoskeleton, spindle . Secreted, extracellular exosome . Concentrated in the nucleolus during interphase and translocates to the spindle during mitosis as an RNA-protein complex that includes 18S ribosomal RNA (PubMed:19596847). In testis, localizes to the chromatoid body (By similarity). .
<b>Tissue Specificity</b>	Expressed in adult and fetal brain and in lymphoblastoid cells.
<b>Function</b>	catalytic activity:S-adenosyl-L-methionine + tRNA = S-adenosyl-L-homocysteine + tRNA containing 5-methylcytosine.,function:RNA methyltransferase that methylates tRNAs, and possibly RNA polymerase III transcripts. Methylates cytosine to 5-methylcytosine (m5C) at position 34 of intron-containing tRNA(Leu)(CAA) precursors. Not able to modify tRNAs at positions 48 or 49. May

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act downstream of Myc to regulate epidermal cell growth and proliferation.,PTM:Phosphorylated at Ser-139 by Aurora-B/STK12 during mitosis, leading to abolish methyltransferase activity and the interaction with NPM1.,similarity:Belongs to the methyltransferase superfamily. RsmB/NOP family. TRM4 subfamily.,subcellular location:Concentrated in the nucleolus during interphase and distributed in the perichromosome and cytoplasm during mitosis.,subunit:Interacts with NPM1 and NCL during interphase; interaction is disrupted fol

#### Background

This gene encodes a methyltransferase that catalyzes the methylation of cytosine to 5-methylcytosine (m5C) at position 34 of intron-containing tRNA(Leu)(CAA) precursors. This modification is necessary to stabilize the anticodon-codon pairing and correctly translate the mRNA. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene.[provided by RefSeq, Mar 2011],

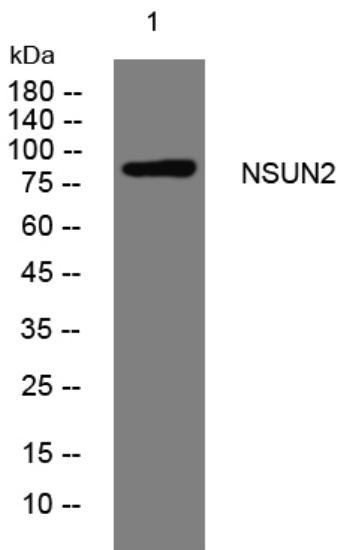
#### matters needing attention

Avoid repeated freezing and thawing!

#### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



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