



NSUN2 rabbit pAb

Catalog No	BYab-08206
Isotype	IgG
Reactivity	Human; Mouse
Applications	WB
Gene Name	NSUN2 SAKI TRM4
Protein Name	NSUN2
Immunogen	Synthesized peptide derived from human NSUN2 AA range: 658-708
Specificity	This antibody detects endogenous levels of NSUN2 at Human/Mouse
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.321% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	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)
Observed Band	85kD
Cell Pathway	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). .
Tissue Specificity	Expressed in adult and fetal brain and in lymphoblastoid cells.
Function	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],

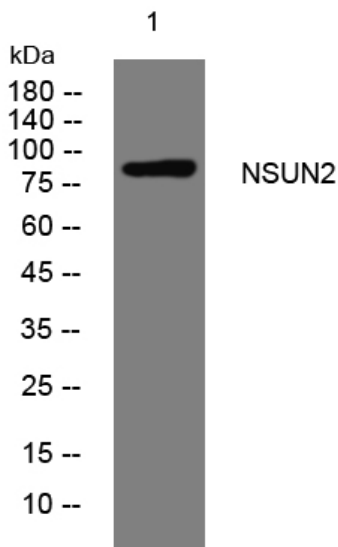
matters needing attention

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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