



NSUN2 mouse mAb

Catalog No	YP-mAb-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	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
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 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],

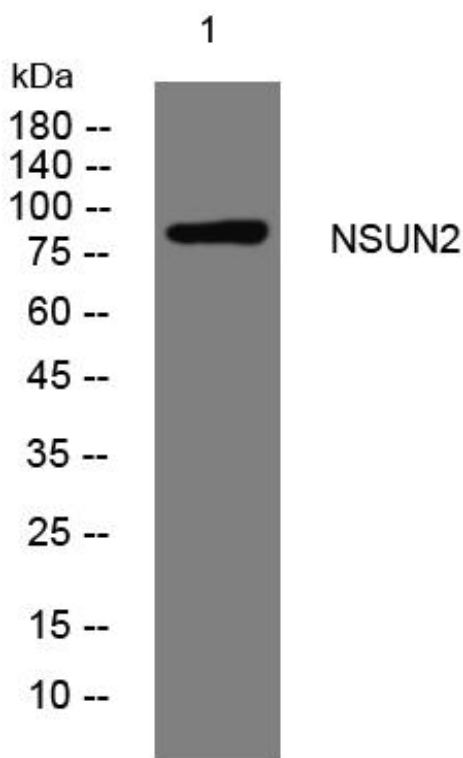
matters needing attention

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



Western Blot analysis of various cells using NSUN2 mouse mAb