



# Rabbit Anti-Human NSUN2 monoclonal antibody, clone 4I35M22 (CABT-L1501)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Specificity</b>	This antibody is predicted to react with Monkey, Horse and Mouse
<b>Target</b>	NSUN2
<b>Immunogen</b>	Protein corresponding to Human NSUN2 (aa 350-600)
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human
<b>Clone</b>	4I35M22
<b>Purification</b>	Protein A Purified
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	FC, ICC, IF, WB
<b>Format</b>	Liquid
<b>Concentration</b>	0.5 mg/ml
<b>Buffer</b>	PBS, pH 7.4
<b>Preservative</b>	0.09% Sodium Azide
<b>Storage</b>	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

## BACKGROUND

**Introduction**

NSUN2 encodes a methyltransferase that catalyzes the intron-dependent formation of 5-methylcytosine at C34 of tRNA-leu(CAA). 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. Mutations of NSUN2 result in autosomal recessive 5 mental retardation (MRT5).

---

**Keywords**

NSUN2;NOP2/Sun domain family, member 2;NOL1/NOP2/Sun domain family 2;NOL1/NOP2/Sun domain family, member 2;tRNA (cytosine(34)-C(5))-methyltransferase;FLJ20303;Misu;Myc induced SUN domain containing protein;TRM4;tRNA methyltransferase 4 homolog (*S. cerevisiae*)

---

## GENE INFORMATION

**Entrez Gene ID**

[54888](#)

---

**UniProt ID**

[Q08J23](#)

---