



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

Specificity	This antibody is predicted to react with Monkey, Horse and Mouse
Target	NSUN2
Immunogen	Protein corresponding to Human NSUN2 (aa 350-600)
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Clone	4I35M22
Purification	Protein A Purified
Conjugate	Unconjugated
Applications	FC, ICC, IF, WB
Format	Liquid
Concentration	0.5 mg/ml
Buffer	PBS, pH 7.4
Preservative	0.09% Sodium Azide
Storage	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](#)