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NSUN3 Rabbit pAb

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Catalog # AP57536

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9H649
Predicted	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	38244
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human NSUN3
Epitope Specificity	1-100/340
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Additional Information

Gene ID	63899
Other Names	tRNA (cytosine(34)-C(5))-methyltransferase, mitochondrial, 2.1.1.-, NOL1/NOP2/Sun domain family member 3 {ECO:0000312|HGNC:HGNC:26208}, NSUN3 (HGNC:26208)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	NSUN3 (HGNC:26208)
Function	Mitochondrial tRNA methyltransferase that mediates methylation of cytosine to 5-methylcytosine (m5C) at position 34 of mt- tRNA(Met) (PubMed:27214402, PubMed:27356879, PubMed:27497299). mt- tRNA(Met) methylation at cytosine(34) takes place at the wobble position of the anticodon and initiates the formation of 5- formylcytosine (f(5)c) at this position (PubMed:27214402, PubMed:27356879, PubMed:27497299). mt-tRNA(Met) containing the f(5)c modification at the wobble position enables

	recognition of the AUA codon in addition to the AUG codon, expanding codon recognition in mitochondrial translation (PubMed:27356879, PubMed:27497299).
Cellular Location	Mitochondrion matrix

Background

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.