

# NSUN3 Rabbit pAb

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Catalog # AP57536

## Product Information

|                     |                                                                                                                           |
|---------------------|---------------------------------------------------------------------------------------------------------------------------|
| Application         | IHC-P, IHC-F, IF                                                                                                          |
| Primary Accession   | <a href="#">Q9H649</a>                                                                                                    |
| 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 ( <a href="#">HGNC:26208</a> )                    |
| 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

|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| Name     | NSUN3 ( <a href="#">HGNC:26208</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Function | Mitochondrial tRNA methyltransferase that mediates methylation of cytosine to 5-methylcytosine (m5C) at position 34 of mt- tRNA(Met) (PubMed: <a href="#">27214402</a> , PubMed: <a href="#">27356879</a> , PubMed: <a href="#">27497299</a> ). 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: <a href="#">27214402</a> , PubMed: <a href="#">27356879</a> , PubMed: <a href="#">27497299</a> ). 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'.