

**NSUN3 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP57536****Specification****NSUN3 Polyclonal Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | IHC-P, IHC-F, IF, ICC  |
| Primary Accession | <a href="#">O9H649</a> |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Calculated MW     | 38244                  |

**NSUN3 Polyclonal Antibody - 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](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=26208))

**Format**

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

**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.

**NSUN3 Polyclonal Antibody - 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:[27497299](http://www.uniprot.org/citations/27497299), PubMed:[27214402](http://www.uniprot.org/citations/27214402), PubMed:[27356879](http://www.uniprot.org/citations/27356879)). 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:[27497299](http://www.uniprot.org/citations/27497299), PubMed:[27214402](http://www.uniprot.org/citations/27214402), PubMed:[27356879](http://www.uniprot.org/citations/27356879)). 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:[27497299](http://www.uniprot.org/citations/27497299), PubMed:[27356879](http://www.uniprot.org/citations/27356879)).

**Cellular Location**  
Mitochondrion matrix

### **NSUN3 Polyclonal Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **NSUN3 Polyclonal Antibody - Images**