NSUN3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NSUN3, Polyclonal Antibody
Full Product Name	NSUN3, NT (NSUN3, Putative methyltransferase NSUN3, NOL1/NOP2/Sun domain family member 3) (MaxLight 490)
Product Gene Name	anti-NSUN3 antibody
Product Synonym Names	NSUN3; Putative methyltransferase NSUN3; NOL1/NOP2/Sun domain family member 3
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	38,244 Da
OMIM	AK025762 mRNA
3D Structure	ModBase 3D Structure for Q9H649
Immunogen	NSUN3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 90-120 amino acids from the N-terminal region of human NSUN3.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-NSUN3 antibody	Antibodies; Enzymes; Methyltransferase
Applications Tested/Suitable for anti-NSUN3 antibody	Western Blot (WB), FLISA
Application Notes for anti-NSUN3 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-NSUN3 antibody	May have S-adenosyl-L-methionine-dependent methyl-transferase activity (Potential).
Product References and Citations for anti-NSUN3 antibody	Trynka, G., et al. Gut 58(8):1078-1083(2009). Lamesch, P., et al. Genomics 89(3):307-315(2007).
Other Notes	Small volumes of anti-NSUN3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for NSUN3 purchase	MBS6326914 is an antibody targeting NSUN3. Also known as NSUN3, NT (NSUN3, Putative methyltransferase NSUN3, NOL1/NOP2/Sun domain family member 3) (MaxLight 490). Reactive in Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NSUN3. It may not necessarily be applicable to this product.

NCBI GI #	11545785
NCBI GeneID	63899
NCBI Accession #	NP_071355.1
UniProt Primary Accession #	Q9H649
UniProt Secondary Accession #	Q6PG41; Q8IXG9; Q9H6M2
UniProt Related Accession #	Q9H649
GenBank Nucleotide #	NM_022072.4
NCBI Official Full Name	tRNA (cytosine(34)-C(5))-methyltransferase, mitochondrial
NCBI Official Synonym Full Names	NOP2/Sun RNA methyltransferase family member 3
NCBI Official Symbol	NSUN3
NCBI Official Synonym Symbols	MST077; MSTP077
UniProt Protein Name	tRNA (cytosine(34)-C(5))-methyltransferase, mitochondrial
UniProt Synonym Protein Names	NOL1/NOP2/Sun domain family member 3
Protein Family	Putative methyltransferase
UniProt Gene Name	NSUN3
NCBI Protein Information	tRNA (cytosine(34)-C(5))-methyltransferase, mitochondrial
UniProt Comments for NSUN3	NSUN3: May have S-adenosyl-L-methionine-dependent methyl- transferase activity. Belongs to the methyltransferase superfamily. RsmB/NOP family. Protein type: EC 2.1.1.-; Methyltransferase Chromosomal Location of Human Ortholog: 3q11.2 Cellular Component: mitochondrial large ribosomal subunit; mitochondrial matrix; mitochondrion Molecular Function: tRNA (cytosine-5-)-methyltransferase activity; tRNA binding Biological Process: rRNA methylation
Research Articles on NSUN3	**1.** The authors show that the RNA methyltransferase NSUN3 localises to mitochondria and interacts with mt-tRNA(M)(et) to methylate cytosine 34 (C34) at the wobble position.
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