

# NOP2 Antibody (N-Term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP22191a

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">P46087</a>
<b>Other Accession</b>	<a href="#">Q922K7</a>
<b>Reactivity</b>	Human
<b>Predicted</b>	Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB56314
<b>Calculated MW</b>	89302

## Additional Information

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<b>Gene ID</b>	4839
<b>Other Names</b>	Probable 28S rRNA (cytosine(4447)-C(5))-methyltransferase, 2.1.1.-, Nucleolar protein 1, Nucleolar protein 2 homolog, Proliferating-cell nucleolar antigen p120, Proliferation-associated nucleolar protein p120, NOP2, NOL1, NSUN1
<b>Target/Specificity</b>	This NOP2 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 9-43 amino acids from human NOP2.
<b>Dilution</b>	WB~~1:1000 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	NOP2 Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	NOP2
<b>Synonyms</b>	NOL1, NSUN1
<b>Function</b>	S-adenosyl-L-methionine-dependent methyltransferase that specifically

methyates the C(5) position of cytosine 4447 in 28S rRNA (PubMed:[26196125](#)). Required for efficient rRNA processing and 60S ribosomal subunit biogenesis (PubMed:[24120868](#), PubMed:[36161484](#)). Regulates pre-rRNA processing through non-catalytic complex formation with box C/D snoRNAs and facilitates the recruitment of U3 and U8 snoRNAs to pre-90S ribosomal particles and their stable assembly into snoRNP complexes (PubMed:[36161484](#)). May play a role in the regulation of the cell cycle and the increased nucleolar activity that is associated with the cell proliferation (PubMed:[24120868](#)).

#### Cellular Location

Nucleus, nucleolus. Nucleus Note=Localizes predominantly in the nucleolus and to a smaller extent in the nucleus.

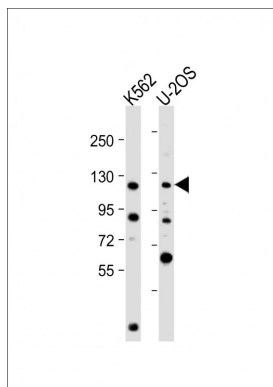
## Background

S-adenosyl-L-methionine-dependent methyltransferase that specifically methylates the C(5) position of cytosine 4447 in 28S rRNA (Probable). May play a role in the regulation of the cell cycle and the increased nucleolar activity that is associated with the cell proliferation.

## References

Fonagy A.,et al.Cancer Commun. 1:243-251(1989).  
Larson R.G.,et al.Cancer Commun. 2:63-71(1990).  
Valdez B.C.,et al.Cancer Res. 52:5681-5686(1992).  
Ota T.,et al.Nat. Genet. 36:40-45(2004).  
Scherer S.E.,et al.Nature 440:346-351(2006).

## Images



All lanes : Anti-NOP2 Antibody (N-Term) at 1:2000 dilution  
Lane 1: K562 whole cell lysate Lane 2: U-2OS whole cell lysate  
Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 89 kDa  
Blocking/Dilution buffer: 5% NFDM/TBST.

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