

NOP2 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP8773a

Specification

NOP2 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession
Other Accession

[P46087](#)
[NP_006161](#)

NOP2 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 4839

Other Names

Probable 28S rRNA (cytosine(4447)-C(5))-methyltransferase, 211-, Nucleolar protein 1, Nucleolar protein 2 homolog, Proliferating-cell nucleolar antigen p120, Proliferation-associated nucleolar protein p120, NOP2, NOL1, NSUN1

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP8773a was selected from the N-term region of human NOP2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

NOP2 Antibody (N-term) Blocking Peptide - Protein Information

Name NOP2

Synonyms NOL1, NSUN1

Function

S-adenosyl-L-methionine-dependent methyltransferase that specifically methylates 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.

NOP2 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

NOP2 Antibody (N-term) Blocking Peptide - Images

NOP2 Antibody (N-term) Blocking Peptide - Background

NOP2 may play a role in the regulation of the cell cycle and the increased nucleolar activity that is associated with the cell proliferation. May act as ribosomal RNA methyltransferase.

NOP2 Antibody (N-term) Blocking Peptide - References

Mayya V., et.al., Sci. Signal. 2:RA46-RA46(2009).