

NOP2 Rabbit pAb

Catalog # AP98368

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P46087
Other Accession	P46087
Host	Rabbit
Clonality	Polyclonal
Calculated MW	89302
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human NOL1
Epitope Specificity	1-100/812
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the methyltransferase superfamily. RsmB/NOPfamily.
SUBUNIT	Interaction with MCRS1.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Proliferation-associated nucleolar antigen is expressed in mid G1 phase with peak level during the S phase and a rapid degradation during late mitosis. Its expression in breast carcinoma is correlated with patient prognosis.

Additional Information

Gene ID	4839
Other Names	NOL1; NOP120; NSUN1; p120; 120kDa; A530002O17; NOP2_HUMAN; NOP2; Nucleolar protein 1; Nucleolar protein 2 homolog; Proliferating-cell nucleolar antigen p120; Proliferation-associated nucleolar protein p120; 2.1.1.-; NOP2_MOUSE; NOP2 nucleolar protein; nucleolar protein 1 (120kD); nucleolar protein 1, 120kDa; nucleolar protein 2 homolog (yeast); NOP2 nucleolar protein homolog (yeast); NOP2/Sun domain family, member 1
Dilution	IHC-P=1:100-500,IHC-F=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

Name	NOP2
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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.

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