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NOP2 Rabbit pAb

Catalog # AP98368

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P46087
Other Accession	P46087
Reactivity	Rat
Predicted	Human, Mouse, Rabbit, Dog, Horse, Sheep
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
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'.