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NOP2 Antibody (N-Term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22191a

Product Information

Application	WB, E
Primary Accession	P46087
Other Accession	Q922K7
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB56314
Calculated MW	89302

Additional Information

Gene ID	4839
Other Names	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
Target/Specificity	This NOP2 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 9-43 amino acids from human NOP2.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	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.
Storage	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.
Precautions	NOP2 Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

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.

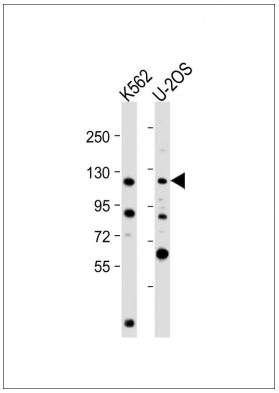
Background

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'.