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NHP2L1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP57449

Product Information

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	P55769
Reactivity	Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	14174
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human NHP2L1
Epitope Specificity	51-128/128
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nucleus ?nucleolus. Note: Concentrated in the dense fibrillar component of the nucleolus.
SIMILARITY	Belongs to the ribosomal protein L7Ae family.
SUBUNIT	Component of the U4/U6-U5 tri-snRNP complex composed of the U4, U6 and U5 snRNAs and at least PRPF3, PRPF4, PRPF6, PRPF8, PRPF31, SNRNP200, TXNL4A, WDR57, SNRNP40, DDX23, CD2BP2, PPIH, NHP2L1, EFTUD2, SART1 and USP39. Interacts with RAD17 and PRPF31.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Originally named because of its sequence similarity to the Saccharomyces cerevisiae NHP2 (non-histone protein 2), this protein appears to be a highly conserved nuclear protein that is a component of the [U4/U6.U5] tri-snRNP. It binds to the 5' stem-loop of U4 snRNA. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	4809
Other Names	NHP2-like protein 1, High mobility group-like nuclear protein 2 homolog 1, OTK27, SNU13 homolog, hSNU13, U4/U6.U5 small nuclear ribonucleoprotein SNU13 {ECO:0000312|HGNC:HGNC:7819}, U4/U6.U5 tri-snRNP 15.5 kDa protein, NHP2-like protein 1, N-terminally processed, SNU13 (HGNC:7819), NHP2L1
Target/Specificity	Ubiquitous.
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000

Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
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	SNU13 (HGNC:7819)
Synonyms	NHP2L1
Function	Part of the small subunit (SSU) processome, first precursor of the small eukaryotic ribosomal subunit. During the assembly of the SSU processome in the nucleolus, many ribosome biogenesis factors, an RNA chaperone and ribosomal proteins associate with the nascent pre- rRNA and work in concert to generate RNA folding, modifications, rearrangements and cleavage as well as targeted degradation of pre- ribosomal RNA by the RNA exosome (PubMed:34516797). Involved in pre- mRNA splicing as component of the spliceosome (PubMed:28781166). Binds to the 5'-stem-loop of U4 snRNA and thereby contributes to spliceosome assembly (PubMed:10545122, PubMed:17412961). The protein undergoes a conformational change upon RNA-binding (PubMed:10545122, PubMed:17412961, PubMed:28781166). Core component of box C/D small nucleolar ribonucleoprotein (snoRNP) complexes that function in methylation of multiple sites on ribosomal RNAs (rRNAs) and messenger RNAs (mRNAs) (PubMed:39570315).
Cellular Location	Nucleus. Nucleus, nucleolus {ECO:0000269|PubMed:10593953, ECO:0000269|PubMed:12429849, ECO:0000269|Ref.7}. Note=Concentrated in the dense fibrillar component of the nucleolus.
Tissue Location	Ubiquitous.