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Nucleolar protein 14 Rabbit pAb

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Catalog # AP57551

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	P78316
Predicted	Rat, Pig, Orangutan, Gorilla, Human, Mouse, Rabbit, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	97668
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Nucleolar protein 14
Epitope Specificity	101-200/857
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.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a protein that plays a role in pre-18s rRNA processing and small ribosomal subunit assembly. The encoded protein may be involved in the regulation of pancreatic cancer cell proliferation and migration. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2014]

Additional Information

Gene ID	8602
Other Names	Nucleolar protein 14, Nucleolar complex protein 14, NOP14, C4orf9, NOL14
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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	NOP14
Synonyms	C4orf9, NOL14

Function	Part of the small subunit (SSU) processome, first precursor of the small eukaryotic ribosomal subunit (PubMed:34516797). 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 nucleolar processing of pre-18S ribosomal RNA (By similarity). Has a role in the nuclear export of 40S pre-ribosomal subunit to the cytoplasm (By similarity). Ensures correct nucleolar localization of small ribosomal subunit processome member EMG1 as part of a complex with NOC4L and UTP14A (PubMed:27798105).
Cellular Location	Nucleus, nucleolus.

Background

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