

GAR1 Antibody(Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19379c

Specification

GAR1 Antibody(Center) - Product Information

Application	WB,E
Primary Accession	Q9NY12
Other Accession	Q6AYA1 , Q7ZVE0 , NP_127460.1
Reactivity	Human
Predicted	Zebrafish, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	22348
Antigen Region	86-114

GAR1 Antibody(Center) - Additional Information

Gene ID 54433

Other Names

H/ACA ribonucleoprotein complex subunit 1, Nucleolar protein family A member 1, snoRNP protein GAR1, GAR1, NOLA1

Target/Specificity

This GAR1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 86-114 amino acids from the Central region of human GAR1.

Dilution

WB~~1:1000

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

GAR1 Antibody(Center) is for research use only and not for use in diagnostic or therapeutic procedures.

GAR1 Antibody(Center) - Protein Information

Name GAR1

Synonyms NOLA1

Function Required for ribosome biogenesis and telomere maintenance. Part of the H/ACA small nucleolar ribonucleoprotein (H/ACA snoRNP) complex, which catalyzes pseudouridylation of rRNA. This involves the isomerization of uridine such that the ribose is subsequently attached to C5, instead of the normal N1. Each rRNA can contain up to 100 pseudouridine ('psi') residues, which may serve to stabilize the conformation of rRNAs. May also be required for correct processing or intranuclear trafficking of TERC, the RNA component of the telomerase reverse transcriptase (TERT) holoenzyme.

Cellular Location

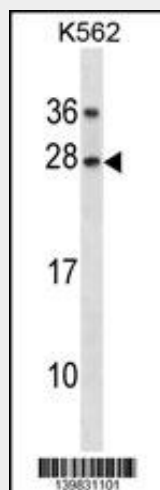
Nucleus, nucleolus. Nucleus, Cajal body. Note=Also localized to Cajal bodies (coiled bodies)

GAR1 Antibody(Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

GAR1 Antibody(Center) - Images



GAR1 Antibody (Center)(Cat. #AP19379c) western blot analysis in K562 cell line lysates (35ug/lane). This demonstrates the GAR1 antibody detected the GAR1 protein (arrow).

GAR1 Antibody(Center) - Background

This gene is a member of the H/ACA snoRNPs (small nucleolar ribonucleoproteins) gene family. snoRNPs are involved in various aspects of rRNA processing and modification and have been classified into two families: C/D and H/ACA. The H/ACA snoRNPs also include the DKC1, NOLA2 and NOLA3 proteins. These four H/ACA snoRNP proteins localize to the dense fibrillar components of nucleoli and

to coiled (Cajal) bodies in the nucleus. Both 18S rRNA production and rRNA pseudouridylation are impaired if any one of the four proteins is depleted. These four H/ACA snoRNP proteins are also components of the telomerase complex. The encoded protein of this gene contains two glycine- and arginine-rich domains and is related to *Saccharomyces cerevisiae* Gar1p. Two splice variants have been found for this gene.

GAR1 Antibody(Center) - References

Kalsi, G., et al. Hum. Mol. Genet. 19(12):2497-2506(2010)
Hamma, T., et al. J. Biol. Chem. 285(2):805-809(2010)
Pigullo, S., et al. Pediatr Blood Cancer 52(3):376-378(2009)
Vasan, R.S., et al. BMC Med. Genet. 8 SUPPL 1, S2 (2007) :
Andersen, J.S., et al. Nature 433(7021):77-83(2005)