

## **GAR1** Antibody(Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP19379c

## **Specification**

### **GAR1** Antibody(Center) - Product Information

Application WB,E
Primary Accession O9NY12

Other Accession <u>Q6AYA1</u>, <u>Q7ZVE0</u>, <u>NP\_127460.1</u>

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**

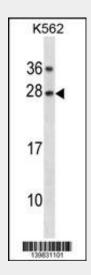
Nucleus, nucleolus. Nucleus, Cajal body. Note=Also localized to Cajal bodies (coiled bodies)

## 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 Cytomety
- 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)