

**GAR1 Antibody(Center) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP19379c****Specification**

---

**GAR1 Antibody(Center) Blocking peptide - Product Information**Primary Accession [Q9NY12](#)**GAR1 Antibody(Center) Blocking peptide - Additional Information****Gene ID** 54433**Other Names**

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

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**GAR1 Antibody(Center) Blocking peptide - 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) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

#### **GAR1 Antibody(Center) Blocking peptide - Images**

#### **GAR1 Antibody(Center) Blocking peptide - 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) Blocking peptide - 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)