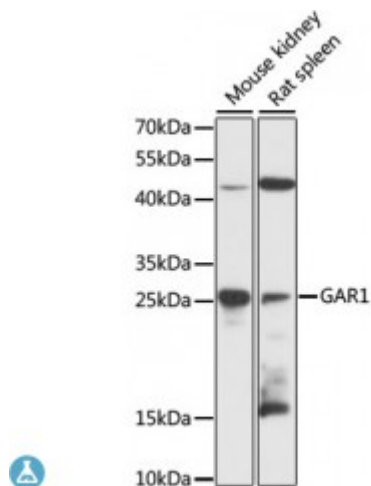


Anti-GAR1 Antibody



Description

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.

Model	STJ114621
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	WB
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 60-170 of human GAR1 (NP_061856.1).
Gene ID	54433
Gene Symbol	GAR1
Dilution range	WB 1:500 - 1:2000
Purification	Affinity purification
Note	For Research Use Only (RUO).

Protein Name	H/ACA ribonucleoprotein complex subunit 1 Nucleolar protein family A member 1 snoRNP protein GAR1
Molecular Weight	22.348 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:14264OMIM:606468Reactome:R-HSA-6790901
Alternative Names	H/ACA ribonucleoprotein complex subunit 1 Nucleolar protein family A member 1 snoRNP protein GAR1
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 Localization	Nucleus, nucleolus, Nucleus, Cajal body,

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