ARG45443
anti-NOLA1 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes NOLA1
Tested Reactivity	Hu
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	NOLA1
Species	Human
Immunogen	Recombinant protein containing to human NOLA1.
Conjugation	Un-conjugated
Alternate Names	GAR1; GAR1 Ribonucleoprotein; NOLA1; Nucleolar Protein Family A, Member 1 (H/ACA Small Nucleolar RNPs); H/ACA Ribonucleoprotein Complex Subunit 1; Nucleolar Protein Family A Member 1; SnoRNP Protein GAR1; GAR1 Ribonucleoprotein Homolog (Yeast); GAR1 Homolog, Ribonucleoprotein; GAR1 Ribonucleoprotein Homolog

Application Instructions

Application table

Application	Dilution
FACS	1 - 3 µg/10^6 cells
ICC/IF	5 µg/ml
IHC-P	2-5 µg/ml
WB	0.25-0.5 µg/ml

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Observed Size: 25 kDa

Properties

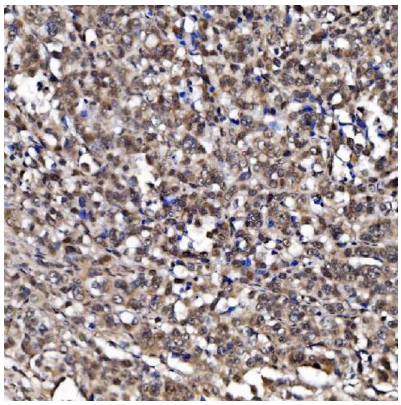
Form	Powder
Purification	Affinity purified
Buffer	0.2% Na2HPO4, 0.9% NaCl and 4% Trehalose.
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated

	freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

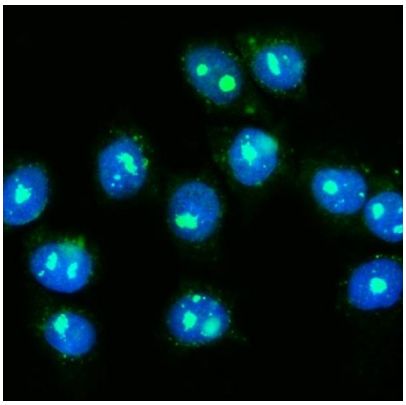
Gene Symbol	GAR1
Gene Full Name	GAR1 Ribonucleoprotein
Background	This gene is a member of the H/ACA snoRNPs (small nucleolar ribonucleoproteins) gene family. snoRNPs are involved in various aspects of rRNA processing and modification and have been classified into two families: C/D and H/ACA. The H/ACA 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. [provided by RefSeq, Jul 2008]
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. [UniProt]
Calculated Mw	22 kDa
PTM	Isopeptide bond; Ubl conjugation. [UniProt]
Cellular Localization	Nucleus. [UniProt]

Images



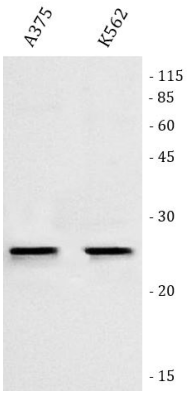
ARG45443 anti-NOLA1 antibody IHC-P image

Immunohistochemistry: Human gastric carcinoma stained with ARG45443 anti-NOLA1 antibody at 2 µg/ml dilution.



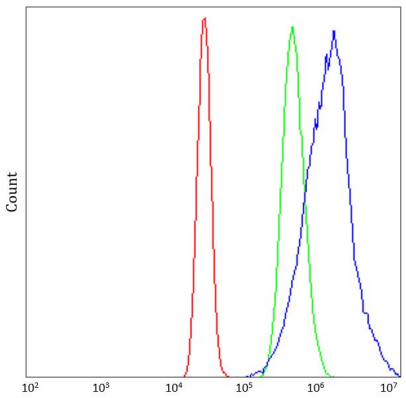
ARG45443 anti-NOLA1 antibody ICC/IF image

Immunofluorescence: MCF-7 stained with ARG45443 anti-NOLA1 antibody at 5 µg/ml dilution.



ARG45443 anti-NOLA1 antibody WB image

Western blot: A375 and K562 stained with ARG45443 anti-NOLA1 antibody at 0.5 µg/ml dilution.



ARG45443 anti-NOLA1 antibody FACS image

Flow Cytometry: K562 stained with ARG45443 anti-NOLA1 antibody at 1 µg/10^6 cells dilution.