

ARG44061 anti-NHP2 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal recognizes NHP2
Tested Reactivity	Hu
Tested Application	FACS, ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	NHP2
Species	Human
Immunogen	Human NHP2 recombinant protein (Position: E21-Q136).
Conjugation	Un-conjugated
Alternate Names	NHP2P; H/ACA ribonucleoprotein complex subunit 2; Nucleolar protein family A member 2; NOLA2; DKCB2; snoRNP protein NHP2

Application Instructions

Application table	Application	Dilution
	FACS	1 - 3 µg/1x10 ⁶ cells
	ICC/IF	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.

Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.05% Sodium azide and 4% Trehalose.
Preservative	0.05% Sodium azide
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.

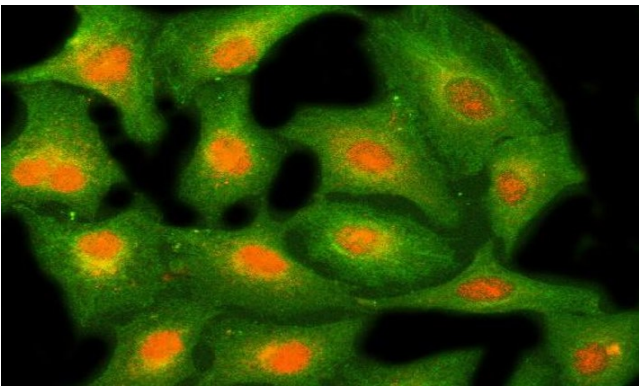
Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

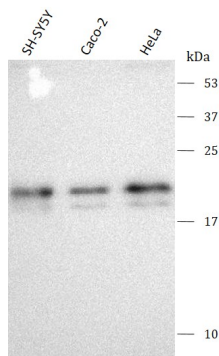
Gene Symbol	NHP2
Gene Full Name	NHP2 ribonucleoprotein
Background	This gene is a member of the H/ACA snoRNPs (small nucleolar ribonucleoproteins) gene family. snoRNPs are involved in various aspects of rRNA processing and modification and have been classified into two families: C/D and H/ACA. The H/ACA snoRNPs also include the DKC1, NOLA1 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. The four H/ACA snoRNP proteins are also components of the telomerase complex. This gene encodes a protein related to <i>Saccharomyces cerevisiae</i> Nhp2p. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 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	17 kDa
Cellular Localization	Nucleus, nucleolus. Nucleus, Cajal body. Note=Also localized to Cajal bodies (coiled bodies). [UniProt]

Images



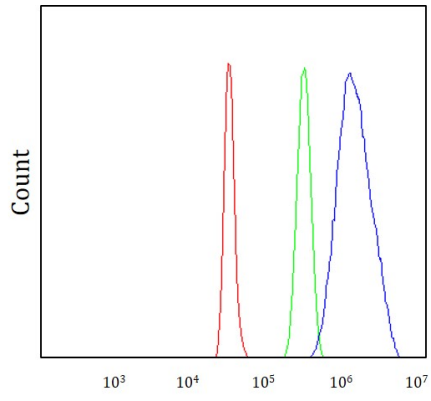
ARG44061 anti-NHP2 antibody ICC/IF image

Immunofluorescence: A549 stained with ARG44061 anti-NHP2 antibody at 5 µg/mL dilution.



ARG44061 anti-NHP2 antibody WB image

Western blot: SH-SY5Y, Caco-2 and HeLa stained with ARG44061 anti-NHP2 antibody at 0.5 µg/mL dilution.



ARG44061 anti-NHP2 antibody FACS image

Flow Cytometry: SH-SY5Y stained with ARG44061 anti-NHP2 antibody at $1 \mu\text{g}/1 \times 10^6$ cells dilution.