

**NHP2 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP17785c****Specification**

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**NHP2 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [Q9NX24](#)**NHP2 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 55651**Other Names**

H/ACA ribonucleoprotein complex subunit 2, Nucleolar protein family A member 2, snoRNP protein NHP2, NHP2, NOLA2

**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.

**NHP2 Antibody (Center) Blocking Peptide - Protein Information****Name** NHP2**Synonyms** NOLA2**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)

**Tissue Location**

Expressed in brain, colon, heart, kidney, ovary, pancreas, placenta, prostate, skeletal muscle, small intestine, spleen, testis and thymus. Also expressed at lower levels in the liver

## **NHP2 Antibody (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

## **NHP2 Antibody (Center) Blocking Peptide - Images**

## **NHP2 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, 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 *Saccharomyces cerevisiae* Nhp2p. Alternative splicing results in multiple transcript variants.

## **NHP2 Antibody (Center) Blocking Peptide - References**

Trahan, C., et al. Hum. Mol. Genet. 19(5):825-836(2010) Satoh, J., et al. Neuropathol. Appl. Neurobiol. 35(1):16-35(2009) Vulliamy, T., et al. Proc. Natl. Acad. Sci. U.S.A. 105(23):8073-8078(2008) Yamaguchi, H., et al. N. Engl. J. Med. 352(14):1413-1424(2005) Slizhikova, D.K., et al. Bioorg. Khim. 31(2):195-199(2005)