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Rabbit Anti-NHP2/AF350 Conjugated antibody

SL19235R-AF350

Product Name	Anti-NHP2/AF350
Chinese Name	AF350 标记的 NHP2 核糖核蛋白抗体
Alias	DKCB2; FLJ20479; H/ACA ribonucleoprotein complex subunit 2; NHP2; NHP2 like protein; NHP2 ribonucleoprotein; NHP2 ribonucleoprotein homolog (yeast) 1; NHP2 ribonucleoprotein homolog; NHP2, S. cerevisiae, homolog of; NHP2_HUMAN; NHP2P; NOLA2; Nucleolar protein family A member 2 (H/ACA small nucleolar RNPs); Nucleolar protein family A member 2; snoRNP protein NHP2.
Research Area	Cell biology Epigenetics
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human(predicted:Mouse,Rat,Dog,Cow,Horse,Rabbit)
Applications	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	17kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human NHP2
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Product Detail	**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. [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.

Subcellular Location:
Nucleus; nucleolus. Nucleus; Cajal body. Also localized to Cajal bodies.

Tissue Specificity:
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.

DISEASE:
Dyskeratosis congenita, autosomal recessive, 2

Similarity:
Belongs to the ribosomal protein L7Ae family.

Database links:

Entrez Gene: 55651 Human

Entrez Gene: 52530 Mouse

Entrez Gene: 287273 Rat

Omim: 606470 Human

SwissProt: Q9NX24 Human

SwissProt: Q9CRB2 Mouse

Unigene: 744074 Human

Unigene: 28203 Mouse

Unigene: 1293 Rat

Important Note:
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.