

NAF1 Rabbit pAb

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Catalog # AP57345

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q96HR8
Predicted	Rat, Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	53717
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human NAF1
Epitope Specificity	301-400/494
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm. Nucleus. Shuttles between the cytoplasm and the nucleus. Absent from the nucleolus.
DISEASE	SMAD1 variants may be associated with susceptibility to pulmonary hypertension, a disorder characterized by plexiform lesions of proliferating endothelial cells in pulmonary arterioles. The lesions lead to elevated pulmonary arterial pressure, right ventricular failure, and death. The disease can occur from infancy throughout life and it has a mean age at onset of 36 years. Penetrance is reduced. Although familial pulmonary hypertension is rare, cases secondary to known etiologies are more common and include those associated with the appetite-suppressant drugs.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	NAF1 is a 494 amino acid RNA-binding protein belonging to the NAF1 family. Encoded by a gene that maps to human chromosome 4q32.2, NAF1 associates with mature RNA in cell lysates and is essential for ribosome biogenesis, premessenger RNA splicing, stable RNA accumulation, maturation of box snoRNP complexes and telomere maintenance. NAF1 mobilizes at the site of transcription where it binds to and escorts the core protein Dyskerin between the nucleus and cytoplasm. NAF1 is replaced by GAR1, which binds competitively with NAF1, resulting in mature RNPs in Cajal bodies and nucleoli. NAF1 delocalizes to the cytoplasm during overexpression but NAF1 shuttling properties continue to be operative. Dyskeratosis congenita mutations in human telomerase RNA may affect NAF1 assembly function.

Additional Information

Gene ID	92345
Other Names	H/ACA ribonucleoprotein complex non-core subunit NAF1, hNAF1, NAF1

Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:500 0-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	NAF1
Function	RNA-binding protein required for the maturation of box H/ACA snoRNPs complex and ribosome biogenesis. During assembly of the H/ACA snoRNPs complex, it associates with the complex and disappears during maturation of the complex and is replaced by NOLA1/GAR1 to yield mature H/ACA snoRNPs complex. Probably competes with NOLA1/GAR1 for binding with DKC1/NOLA4.
Cellular Location	Cytoplasm. Nucleus. Note=Shuttles between the cytoplasm and the nucleus. Absent from the nucleolus (By similarity) {ECO:0000250 UniProtKB:P53919}

Background

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