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NSA1 Antibody

Catalog # ASC11097

Product Information

Application	WB, E
Primary Accession	Q6RFH5
Other Accession	Q6RFH5, 55976441
Reactivity	Human, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	42441
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	NSA1 antibody can be used for detection of NSA1 by Western blot at 1 - 2 g/mL. For immunofluorescence start at 20 g/mL.

Additional Information

Gene ID	54663
Other Names	WD repeat-containing protein 74, NOP seven-associated protein 1, WDR74, NSA1
Target/Specificity	WDR74;
Reconstitution & Storage	NSA1 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	NSA1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	WDR74
Synonyms	NSA1
Function	Regulatory protein of the MTREX-exosome complex involved in the synthesis of the 60S ribosomal subunit (PubMed:26456651). Participates in an early cleavage of the pre-rRNA processing pathway in cooperation with NVL (PubMed:29107693). Required for blastocyst formation, is necessary for RNA transcription, processing and/or stability during preimplantation development (By similarity).
Cellular Location	Nucleus, nucleolus. Nucleus Note=Nucleolar location depends on active PolI

transcription of pre- rRNA.

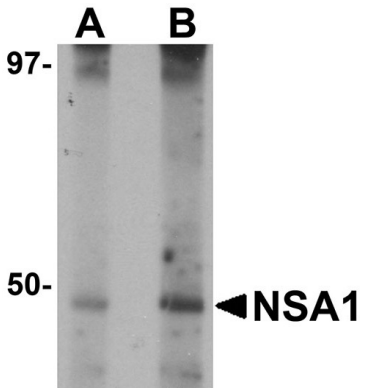
Background

NSA1 Antibody: The yeast nucleolar protein NOP7 is necessary for the maturation of 66S preribosomes and interacts with numerous other proteins. One such protein is an essential, conserved WD repeat protein, NOP seven-associated protein 1 (NSA1), that is also required for the yeast 66S ribosome assembly. NSA1 is also associated with the AAA ATPase Rix7, and release of NSA1 from a novel late nucleolar pre-60S requires the Rix7 function. NSA1 has also been found upregulated in mammalian cancer cells, suggesting it may also play a role in cell proliferation.

References

Miles TD, Jakovljevic J, Horsey EW, et al. Ytm1, Nop7, and Erb1 form a complex necessary for maturation of yeast 66S preribosomes. Mol. Cell Biol.2005; 25:10419-32.
Harnpicharnchai P, Jakovljevic J, Horsey E, et al. Composition and functional characterization of yeast 66S ribosome assembly intermediates. Mol. Cell2001; 8:505-15.
Kressler D, Roser D, Pertschy B, et al. The AAA ATPase Rix7 powers progression of ribosome biogenesis by stripping Nsa1 from pre-60S particles. J. Cell Biol.2008; 181:935-44.
Krol M, Polanska J, Pawlowski KM, et al. Transcriptomic signature of cell lines isolated from canine mammary adenocarcinoma metastases to lungs. J. Appl. Genet.2010; 51:37-50.

Images



Western blot analysis of NSA1 in rat liver tissue lysate with NSA1 antibody at (A) 1 and (B) 2 碌g/mL.