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Anti-Dyskerin Antibody

Catalog # AP53340

Product Information

Application	WB, IHC, IF/IC
Primary Accession	O60832
Reactivity	Human, Mouse, Rabbit, Mk
Host	Rabbit
Clonality	Polyclonal
Calculated MW	57674

Additional Information

Gene ID	1736
Other Names	NOLA4; H/ACA ribonucleoprotein complex subunit 4; CBF5 homolog; Dyskerin; Nopp140-associated protein of 57 kDa; Nucleolar protein NAP57; Nucleolar protein family A member 4; snoRNP protein DKC1
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Dyskerin. The exact sequence is proprietary.
Dilution	WB~~ 1:500-1:1000 IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	DKC1 (HGNC:2890)
Synonyms	NOLA4
Function	[Isoform 1]: Catalytic subunit of H/ACA small nucleolar ribonucleoprotein (H/ACA snoRNP) complex, which catalyzes pseudouridylation of rRNA (PubMed:25219674, PubMed:32554502). This involves the isomerization of uridine such that the ribose is subsequently attached to C5, instead of the normal N1 (PubMed:25219674). Each rRNA can contain up to 100 pseudouridine ('psi') residues, which may serve to stabilize the conformation of rRNAs. Required for ribosome biogenesis and telomere maintenance (PubMed:19179534, PubMed:25219674). Also required for correct processing or intranuclear trafficking of TERC, the RNA component of the telomerase reverse transcriptase (TERT) holoenzyme (PubMed:19179534).
Cellular Location	[Isoform 1]: Nucleus, nucleolus. Nucleus, Cajal body

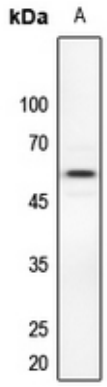
{ECO:0000250|UniProtKB:P40615}

Tissue Location Ubiquitously expressed.

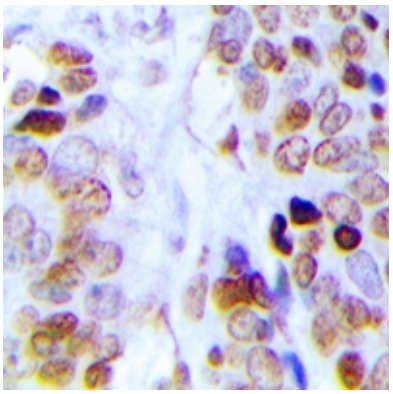
References

Heiss N.S.,et al.Nat. Genet. 19:32-38(1998).
Knight S.W.,et al.Am. J. Hum. Genet. 65:50-58(1999).
Hassock S.,et al.Genomics 55:21-27(1999).
Jiang W.,et al.Submitted (MAY-1996) to the EMBL/GenBank/DDBJ databases.
Angrisani A.,et al.Biochim. Biophys. Acta 1810:1361-1368(2011).

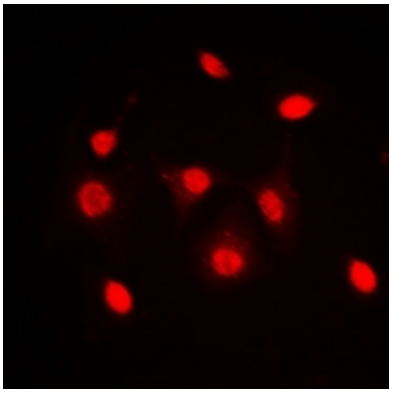
Images



Western blot analysis of Dyskerin expression in HeLa (A) whole cell lysates. (Predicted band size: 57 kD; Observed band size: 58 kD)



Immunohistochemical analysis of Dyskerin staining in human prostate cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of Dyskerin staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

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