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DKC1 / Dyskerin Antibody (Internal)
Goat Polyclonal Antibody
Catalog # ALS12209

Specification

DKC1 / Dyskerin Antibody (Internal) - Product Information

Application	**IHC**
Primary Accession	O60832
Reactivity	**Human, Monkey**
Host	**Goat**
Clonality	**Polyclonal**
Calculated MW	**58kDa KDa**

DKC1 / Dyskerin Antibody (Internal) - Additional Information

Gene ID 1736

Other Names
H/ACA ribonucleoprotein complex subunit 4, 5.4.99.-, CBF5 homolog, Dyskerin, Nopp140-associated protein of 57 kDa, Nucleolar protein NAP57, Nucleolar protein family A member 4, snoRNP protein DKC1, DKC1, NOLA4

Target/Specificity
Human DKC1.

Reconstitution & Storage
Store at -20°C. Minimize freezing and thawing.

Precautions
DKC1 / Dyskerin Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

DKC1 / Dyskerin Antibody (Internal) - 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:<a href="http://www.uniprot.org/citations/19179534"

target="_blank">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}

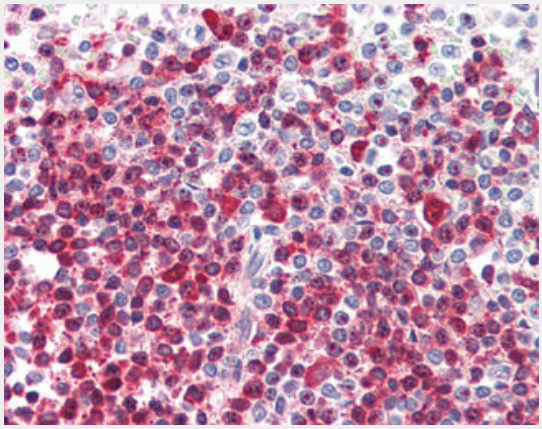
Tissue Location
Ubiquitously expressed.

DKC1 / Dyskerin Antibody (Internal) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

DKC1 / Dyskerin Antibody (Internal) - Images



Anti-DKC1 antibody IHC of human spleen.

DKC1 / Dyskerin Antibody (Internal) - Background

Isoform 1: Required for ribosome biogenesis and telomere maintenance. Probable catalytic subunit of 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. Also required for correct processing or intranuclear trafficking of TERC, the RNA component of the telomerase reverse transcriptase (TERT) holoenzyme.

DKC1 / Dyskerin Antibody (Internal) - 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).