
Product Name: KD-Validated Dyskerin Pseudouridine Synthase 1 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA000009**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000
Molecular Weight	Calculated MW: 57.7kDa

Antigen Information

Gene Name	DKC1 DKC1; Dyskerin Pseudouridine Synthase 1; NOLA4; XAP101; NAP57; H/ACA Ribonucleoprotein Complex Subunit DKC1; H/ACA Ribonucleoprotein Complex Subunit;
Alternative Names	Nopp140-Associated Protein Of 57 KDa; Nucleolar Protein Family A Member 4; Dyskeratosis Congenita 1, Dyskerin; Nucleolar Protein NAP57; SnoRNP Protein DKC1; CBF5 Homolog; Dyskerin; CBF5; DKC; EC 5.4.99.-; EC 5.4.99; DYSKERIN; CHINE1; Cbf5; DKCX
Gene ID	1736.0
SwissProt ID	O60832
Immunogen	A synthesized peptide derived from human DKC1

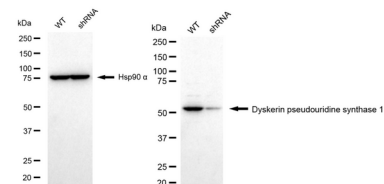
Background

This gene functions in two distinct complexes. It plays an active role in telomerase stabilization and maintenance, as well as recognition of snoRNAs containing H/ACA sequences which provides stability during biogenesis and assembly into H/ACA small nucleolar RNA ribonucleoproteins (snoRNPs). This gene is highly conserved and widely expressed, and may play additional roles in nucleo-cytoplasmic shuttling, DNA damage response, and cell adhesion. Mutations have been associated with X-linked dyskeratosis congenita. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]

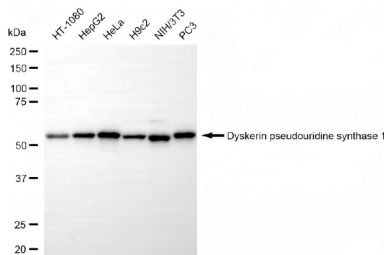
Research Area

Epigenetics and Nuclear Signaling

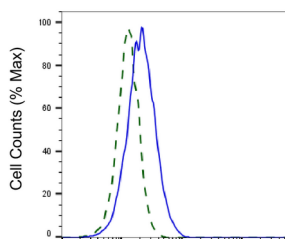
Image Data



Western blotting analysis using dyskerin pseudouridine synthase 1 antibody (KVA00009). Dyskerin pseudouridine synthase 1 expression in wild type (WT) and dyskerin pseudouridine synthase 1 (DKC1) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with dyskerin pseudouridine synthase 1 antibody (KVA00009, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.

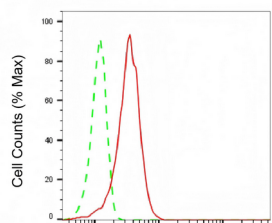


Western blotting analysis using dyskerin pseudouridine synthase 1 antibody (KVA00009). Total cell lysates (20 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with dyskerin pseudouridine synthase 1 antibody (KVA00009, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Dyskerin pseudouridine synthase 1-Alexa Fluor® 647

Validation of Dyskerin pseudouridine synthase 1 knockdown using flow cytometry. Wild-type (WT, Blue) and knockdown (KD, Green) HeLa cells were stained with Dyskerin pseudouridine synthase 1 antibody (KVA00009, 1:2,000) and analyzed using BD flow cytometer.



Dyskerin pseudouridine synthase 1-Alexa Fluor® 647

Flow cytometric analysis of Dyskerin pseudouridine synthase 1 expression in HepG2 cells using Dyskerin pseudouridine synthase 1 antibody (KVA00009, 1:2,000). Green, isotype control; red, Dyskerin pseudouridine synthase 1.