

# **DKC1** Antibody

Rabbit mAb Catalog # AP91692

#### **Product Information**

**Application** WB, IHC, IF, ICC, IHF

Primary Accession 060832

**Reactivity** Rat, Human, Mouse

**Clonality** Monoclonal

Other Names DKC1; DKC; CBF5; DKCX; NAP57; NOLA4; XAP101;

IsotypeRabbit IgGHostRabbitCalculated MW57674

#### **Additional Information**

**Dilution** WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200

**Purification** Affinity-chromatography

**Immunogen** A synthesized peptide derived from human DKC1

**Description** 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.

Storage Condition and Buffer Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium

azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term.

Avoid freeze / thaw cycle.

#### **Protein Information**

Name DKC1 ( <u>HGNC:2890</u>)

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:<u>25219674</u>). 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

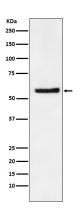
reverse transcriptase (TERT) holoenzyme (PubMed: 19179534).

Cellular Location [Isoform 1]: Nucleus, nucleolus. Nucleus, Cajal body

### **Tissue Location**

Ubiquitously expressed.

## **Images**



Western blot analysis of DKC1 expression in SW480 cell lysate.

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