


Anti-DKC1/Dyskerin antibody ab93777

★★★★★ [1 Abreviews](#) [3 References](#) [2 Images](#)

Overview

Product name	Anti-DKC1/Dyskerin antibody
Description	Rabbit polyclonal to DKC1/Dyskerin
Host species	Rabbit
Tested applications	Suitable for: WB, IP
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat, Sheep, Rabbit, Horse, Chicken, Guinea pig, Cow, Dog, Turkey, Pig, Drosophila melanogaster, Zebrafish, Rhesus monkey, Gorilla, Orangutan, Xenopus tropicalis 
Immunogen	Synthetic peptide corresponding to Human DKC1/Dyskerin aa 340-390. Database link: NP_001354.1
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 6.8 Preservative: 0.09% Sodium azide Constituents: 0.1% BSA, Tris buffered saline
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab93777 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (1)	1/2000 - 1/10000. Predicted molecular weight: 58 kDa.
IP		Use at 5-15 µg/mg of lysate.

Target

Function

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.

Isoform 3: Promotes cell to cell and cell to substratum adhesion, increases the cell proliferation rate and leads to cytokeratin hyper-expression (when overexpressed in HeLa cells).

Tissue specificity

Ubiquitously expressed.

Involvement in disease

Defects in DKC1 are a cause of dyskeratosis congenita X-linked recessive (XDKC) [MIM:305000]. XDKC is a rare, progressive bone marrow failure syndrome characterized by the triad of reticulated skin hyperpigmentation, nail dystrophy, and mucosal leukoplakia. Early mortality is often associated with bone marrow failure, infections, fatal pulmonary complications, or malignancy.

Defects in DKC1 are the cause of Hoyeraal-Hreidarsson syndrome (HHS) [MIM:300240]. HHS is a multisystem disorder affecting males and is characterized by aplastic anemia, immunodeficiency, microcephaly, cerebellar hypoplasia, and growth retardation.

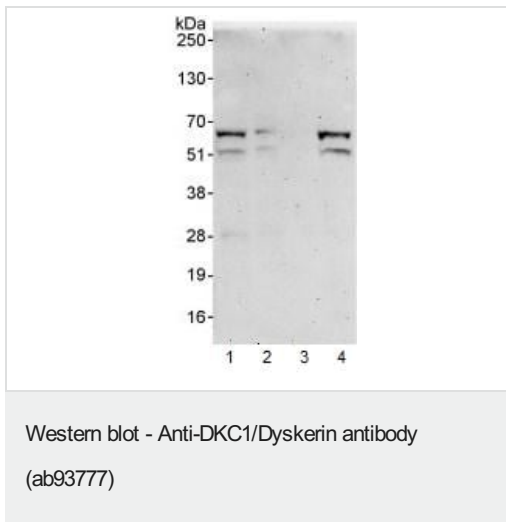
Sequence similarities

Belongs to the pseudouridine synthase TruB family.
Contains 1 PUA domain.

Cellular localization

Cytoplasm and Nucleus > nucleolus. Nucleus > Cajal body. Also localized to Cajal bodies.

Images



All lanes : Anti-DKC1/Dyskerin antibody (ab93777) at 0.04 µg/ml

Lane 1 : HeLa cell lysate at 50 µg

Lane 2 : HeLa cell lysate at 15 µg

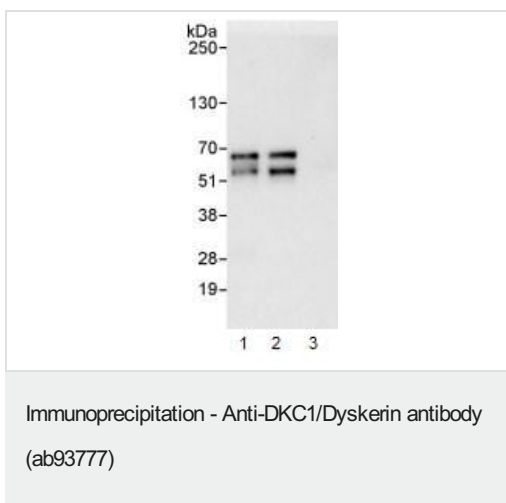
Lane 3 : HeLa cell lysate at 5 µg

Lane 4 : 293T cell lysate at 50 µg

Developed using the ECL technique.

Predicted band size: 58 kDa

Exposure time: 3 minutes



Detection of Human DKC1/Dyskerin by Immunoprecipitation in Whole cell lysate from HeLa cells (1 mg for IP, 20% of IP loaded) using ab93777 at 10 ug/mg lysate (LANE 1).

DKC1/Dyskerin was also immunoprecipitated by an antibody which recognizes a downstream epitope (LANE 2). Lane 3 represents IgG Ip control. subsequent WB detection was performed using 1 ug/ml ab93777. Detection: Chemiluminescence with exposure times of 10 seconds.

All lanes : Anti-DKC1/Dyskerin antibody (ab93777) at 1 µg/ml

Lane 1 : HeLa cell lysate immunoprecipitated with ab 93777 at 10ug/mg lysate.

Lane 2 : HeLa cell lysate immunoprecipitated with anti-DKC1/Dyskerinantibody at 10ug/mg lysate.

Lane 3 : HeLa cell lysate immunoprecipitated with control IgG at 10ug/mg lysate.

Lysates/proteins at 200 µg per lane.

Developed using the ECL technique.

Exposure time: 10 seconds

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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