Dyskerin (DKC) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Dyskerin (DKC), Polyclonal Antibody
Full Product Name	APC-Linked Polyclonal Antibody to Dyskerin (DKC)
Product Gene Name	anti-DKC antibody
Product Synonym Names	DKC1; NAP57; NOLA4; NAP57; Dyskeratosis Congenita 1; H/ACA Ribonucleoprotein Complex Subunit 4; Nopp140-associated protein of 57 kDa; Nucleolar protein family A member 4
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Concentration	>=100ug/ml (lot specific)
Matching Pairs	Unconjugated Antibody: DKC (MBS2032628) APC Conjugated Antibody: DKC (MBS2065717)
Matching Pairs	APC Conjugated Antibody: DKC (MBS2065717) Immunogen: DKC (MBS2033382)
Molecular Weight	47,603 Da
OMIM	AJ224481 Genomic DNA
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Immunogen	DKC (Arg298~Glu509)
Conjugation	APC
Cross Reactivity	Human, Mouse
Unconjugated Antibody	The unconjugated antibody version of this item is also available as catalog #MBS2032628
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-DKC antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunohistochemistry (IHC) Formalin/Paraffin, ELISA (ELISA)
Related Product Information for anti-DKC antibody	MBS2065717 is an antibody targeting DKC. Also known as APC-Linked Polyclonal Antibody to Dyskerin (DKC). Reactive in Human, Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-DKC antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DKC. It may not necessarily be applicable to this product.

NCBI GI #	4416165
NCBI GeneID	1736
NCBI Accession #	AAD20232.1

UniProt Secondary Accession #	O43845; Q96G67; Q9Y505; F5BSB3
UniProt Related Accession #	O60832
NCBI Official Full Name	dyskerin
NCBI Official Synonym Full Names	dyskerin pseudouridine synthase 1
NCBI Official Symbol	DKC1
NCBI Official Synonym Symbols	DKC; CBF5; DKCX; NAP57; NOLA4; XAP101
UniProt Protein Name	H/ACA ribonucleoprotein complex subunit 4
UniProt Synonym Protein Names	CBF5 homolog; Dyskerin; Nopp140-associated protein of 57 kDa; Nucleolar protein NAP57; Nucleolar protein family A member 4; snoRNP protein DKC1
UniProt Gene Name	DKC1
UniProt Synonym Gene Names	NOLA4
NCBI Protein Information	H/ACA ribonucleoprotein complex subunit 4
NCBI Summary for DKC	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]
UniProt Comments for DKC	dyskerin: 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. Defects in DKC1 are a cause of dyskeratosis congenita X-linked recessive (XDKC). 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). HHS is a multisystem disorder affecting males and is characterized by aplastic anemia, immunodeficiency, microcephaly, cerebellar hypoplasia, and growth retardation. Belongs to the pseudouridine synthase TruB family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 5.4.99.-; Isomerase; Lyase; Nucleolus; RNA processing; RNA-binding Chromosomal Location of Human Ortholog: Xq28 Cellular Component: nucleolus; nucleoplasm; nucleus; telomerase holoenzyme complex Molecular Function: protein binding; pseudouridine synthase activity; RNA binding; telomerase activity Biological Process: box H/ACA snoRNA 3'-end processing; cell proliferation; positive regulation of telomerase activity; RNA processing; rRNA processing; rRNA pseudouridine synthesis; snRNA pseudouridine synthesis; telomere maintenance via telomerase Disease: Dyskeratosis Congenita, X-linked
Research Articles on DKC	**1.** A mutation in the DC gene 1 (DKC1) at Xq28 results in dysfunction of dyskerin, a protein that is involved in telomere maintenance and ribosomal biogenesis.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.

Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-mouse-antibody/dyskerin-dkc/2065717