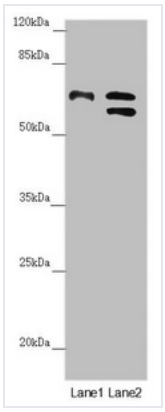
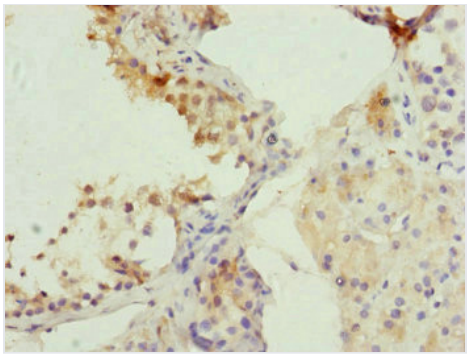
CDC45 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

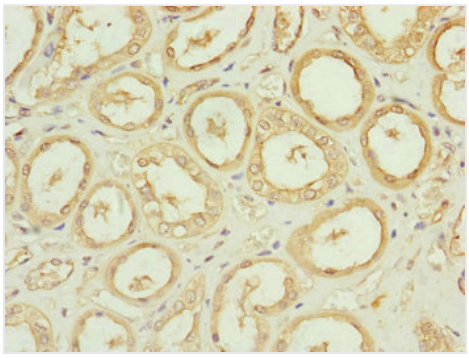
Product Name	CDC45, Polyclonal Antibody
Full Product Name	CDC45 Antibody
Product Gene Name	anti-CDC45 antibody
Product Synonym Names	Cell division control protein 45 homolog; PORC-PI-1; CDC45; CDC45L; CDC45L2; UNQ374/PRO710
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	Antigen Affinity Purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	68,768 Da
OMIM	603465
3D Structure	ModBase 3D Structure for O75419
Species	Human
Immunogen	Recombinant human Cell division control protein 45 homolog protein (N-270AA)
Conjugate	Non-conjugated
Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-9298 / sc-32513 / sc-20685
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CDC45 antibody	ELISA (EIA), Western Blot (WB), Immunohistochemistry (IHC)
Related Product Information for anti-CDC45 antibody	MBS7044679 is an antibody targeting CDC45. Also known as CDC45 Antibody. Reactive in Human. Host: Rabbit. Required for initiation of chromosomal DNA replication.
Other Notes	Small volumes of anti-CDC45 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.



Western Blot (WB) of anti-CDC45 antibody
Western blotAll lanes: CDC45 antibody at 1.05 ug/mlLane 1: K562 whole cell lysateLane 2: 293T whole cell lysateSecondaryGoat polyclonal to rabbit IgG at 1/10000 dilutionPredicted band size: 66,61,69 kDaObserved band size: 66,58 kDa



Immunohistochemistry (IHC) of anti-CDC45 antibody
Immunohistochemistry of paraffin-embedded human testis tissue using MBS7044679 at dilution of 1:100



Immunohistochemistry (IHC) of anti-CDC45 antibody
Immunohistochemistry of paraffin-embedded human kidney tissue using MBS7044679 at dilution of 1:100

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CDC45. It may not necessarily be applicable to this product.

NCBI GI #	295821205
NCBI GeneID	8318
NCBI Accession #	NP_001171481.1
UniProt Primary Accession #	O75419
UniProt Secondary Accession #	O60856; Q20WK8; Q6UW54; Q9UP68; B4DDB4; B4DDU3; E9PDH7
UniProt Related Accession #	O75419
GenBank Nucleotide #	NM_001178010.2
NCBI Official Full Name	cell division control protein 45 homolog isoform 1
NCBI Official Synonym Full Names	cell division cycle 45
NCBI Official Symbol	CDC45
NCBI Official Synonym Symbols	CDC45L; MGORS7; CDC45L2; PORC-PI-1
UniProt Protein Name	Cell division control protein 45 homolog
UniProt Synonym Protein Names	PORC-PI-1
Protein Family	Cell division control protein
UniProt Gene Name	CDC45

UniProt Synonym Gene Names	CDC45L; CDC45L2
UniProt Entry Name	CDC45_HUMAN
NCBI Protein Information	cell division control protein 45 homolog
NCBI Summary for CDC45	The protein encoded by this gene was identified by its strong similarity with Saccharomyces cerevisiae Cdc45, an essential protein required to the initiation of DNA replication. Cdc45 is a member of the highly conserved multiprotein complex including Cdc6/Cdc18, the minichromosome maintenance proteins (MCMs) and DNA polymerase, which is important for early steps of DNA replication in eukaryotes. This protein has been shown to interact with MCM7 and DNA polymerase alpha. Studies of the similar gene in Xenopus suggested that this protein play a pivotal role in the loading of DNA polymerase alpha onto chromatin. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]
UniProt Comments for CDC45	CDC45L: Required for initiation of chromosomal DNA replication. Associated with ORC2. Widely expressed, highest levels are found in adult testis and thymus and in fetal liver. Belongs to the CDC45 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Cell cycle regulation Chromosomal Location of Human Ortholog: 22q11.21 Cellular Component: centrosome; nucleoplasm; nucleus Molecular Function: 3'-5' DNA helicase activity; chromatin binding; DNA replication origin binding; protein binding; single-stranded DNA binding Biological Process: DNA replication; DNA replication checkpoint; double-strand break repair via break-induced replication; G1/S transition of mitotic cell cycle; G1/S-specific transcription in mitotic cell cycle; pre-replicative complex assembly; regulation of chromatin silencing at telomere
Research Articles on CDC45	**1.** The depletion of HDHB from human cells diminishes Cdc45 association with chromatin, suggesting that HDHB may facilitate Cdc45 recruitment at G1/S in human cells.
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-antibody/cdc45/7044679