

CDC45L Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP9881c

Product Information

Application WB, IHC-P, FC, E

Primary Accession 075419 Reactivity Human Host Rabbit Clonality Polyclonal Isotype Rabbit IgG **Clone Names** RB23958 **Calculated MW** 65569 **Antigen Region** 236-263

Additional Information

Gene ID 8318

Other Names Cell division control protein 45 homolog, PORC-PI-1, CDC45, CDC45L,

CDC45L2

Target/Specificity This CDC45L antibody is generated from rabbits immunized with a KLH

conjugated synthetic peptide between 236-263 amino acids from the Central

region of human CDC45L.

Dilution WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent

concentration.

Format Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.

This antibody is purified through a protein A column, followed by peptide

affinity purification.

Storage Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store

at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions CDC45L Antibody (Center) is for research use only and not for use in

diagnostic or therapeutic procedures.

Protein Information

Name CDC45 (<u>HGNC:1739</u>)

Synonyms CDC45L, CDC45L2

Function Required for initiation of chromosomal DNA replication. Core component of

CDC45-MCM-GINS (CMG) helicase, the molecular machine that unwinds template DNA during replication, and around which the replisome is built.

Cellular Location Nucleus. Chromosome. Note=Associates with chromatin

Tissue Location Widely expressed, highest levels are found in adult testis and thymus and in

fetal liver

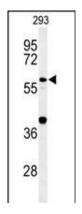
Background

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. Multiple polyadenlyation sites of this gene are reported.

References

Chowdhury, A., et al. Mol. Cell. Biol. 30(6):1495-1507(2010) Im, J.S., et al. Proc. Natl. Acad. Sci. U.S.A. 106(37):15628-15632(2009) Ballabeni, A., et al. J. Biol. Chem. 284(5):3028-3036(2009) Enjuanes, A., et al. Cancer Res. 68(24):10178-10186(2008) Hoskins, J.M., et al. Clin. Cancer Res. 14(6):1788-1796(2008)

Images

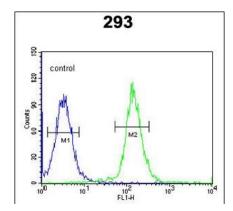


Western blot analysis of CDC45L Antibody (Center) (Cat. #AP9881c) in 293 cell line lysates (35ug/lane). CDC45L (arrow) was detected using the purified Pab.



CDC45L Antibody (Center) (Cat. #AP9881c) IHC analysis in formalin fixed and paraffin embedded testis tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the CDC45L Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

CDC45L Antibody (Center) (Cat. #AP9881c) flow cytometric analysis of 293 cells (right histogram)



compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.