

CDC45L Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP9881c

Specification

CDC45L Antibody (Center) Blocking Peptide - Product Information

Primary Accession [O75419](#)

CDC45L Antibody (Center) Blocking Peptide - Additional Information

Gene ID 8318

Other Names

Cell division control protein 45 homolog, PORC-PI-1, CDC45, CDC45L, CDC45L2

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CDC45L Antibody (Center) Blocking Peptide - Protein Information

Name CDC45 ([HGNC:1739](#))

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

CDC45L Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

CDC45L Antibody (Center) Blocking Peptide - Images

CDC45L Antibody (Center) Blocking Peptide - 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 polyadenylation sites of this gene are reported.

CDC45L Antibody (Center) Blocking Peptide - 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)