

CDT1 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP2952c**Specification**

CDT1 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q9H211](#)**CDT1 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 81620**Other Names**DNA replication factor Cdt1, Double parked homolog, DUP, CDT1
{ECO:0000312|EMBL:AAG451811}**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP2952c](/products/AP2952c) was selected from the Center region of human CDT1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

CDT1 Antibody (Center) Blocking Peptide - Protein Information**Name** CDT1 {ECO:0000312|EMBL:AAG45181.1}**Function**

Required for both DNA replication and mitosis (PubMed: [11125146](http://www.uniprot.org/citations/11125146), PubMed: [22581055](http://www.uniprot.org/citations/22581055), PubMed: [21856198](http://www.uniprot.org/citations/21856198), PubMed: [14993212](http://www.uniprot.org/citations/14993212), PubMed: [26842564](http://www.uniprot.org/citations/26842564)). DNA replication licensing factor, required for pre-replication complex assembly. Cooperates with CDC6 and the origin recognition complex (ORC) during G1 phase of the cell cycle to promote the loading of the mini-chromosome maintenance (MCM) complex onto DNA to generate pre-replication complexes (pre-RC)(PubMed: [14672932](http://www.uniprot.org/citations/14672932)). Required also for mitosis by promoting stable

kinetochore-microtubule attachments (PubMed:22581055). Potential oncogene (By similarity).

Cellular Location

Nucleus. Chromosome, centromere, kinetochore. Note=Transiently localizes to kinetochores during prometaphase and metaphase

CDT1 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

CDT1 Antibody (Center) Blocking Peptide - Images**CDT1 Antibody (Center) Blocking Peptide - Background**

CDT1 Cooperates with CDC6 to promote the loading of the mini-chromosome maintenance complex onto chromatin to form the pre-replication complex necessary to initiate DNA replication. It Binds DNA in a sequence-, strand-, and conformation-independent manner.

CDT1 Antibody (Center) Blocking Peptide - References

Whittaker,A.J., et.al., Genes Dev. 14 (14), 1765-1776 (2000)Nishitani,H., et.al., Nature 404 (6778), 625-628 (2000)Herbig,U., et.al., Mol. Biol. Cell 10 (8), 2631-2645 (1999)