

CDC20 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP9138a**Specification**

CDC20 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q12834](#)**CDC20 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 991**Other Names**

Cell division cycle protein 20 homolog, p55CDC, CDC20

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP9138a](/products/AP9138a) was selected from the N-term region of human CDC20. 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.

CDC20 Antibody (N-term) Blocking Peptide - Protein Information**Name** CDC20**Function**

Involved in the metaphase/anaphase transition of cell cycle (PubMed:[32666501](http://www.uniprot.org/citations/32666501)). Required for full ubiquitin ligase activity of the anaphase promoting complex/cyclosome (APC/C) and may confer substrate specificity upon the complex. Is regulated by MAD2L1: in metaphase the MAD2L1-CDC20-APC/C ternary complex is inactive and in anaphase the CDC20-APC/C binary complex is active in degrading substrates. The CDC20-APC/C complex positively regulates the formation of synaptic vesicle clustering at active zone to the presynaptic membrane in postmitotic neurons. CDC20-APC/C-induced degradation of NEUROD2 induces presynaptic differentiation. The CDC20-APC/C complex promotes proper dilation formation and radial migration by degrading CCDC41 (By similarity).

Cellular Location

Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Chromosome, centromere, kinetochore. Cytoplasm, cytoskeleton, spindle pole

CDC20 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

CDC20 Antibody (N-term) Blocking Peptide - Images

CDC20 Antibody (N-term) Blocking Peptide - Background

CDC20 is an activating regulatory factor for the APC/C (anaphase promoting complex/cyclosome). It activates the ubiquitination activity of the APC/C. CDC20 confers a strict destruction-box (D-box) dependence on APC. Levels of CDC20, as well as its binding to APC, peak in mitosis and decrease drastically at early G1.

CDC20 Antibody (N-term) Blocking Peptide - References

Ge S., et.al., Cell Cycle 8:167-171(2009).Gauci S., et.al., Anal. Chem. 81:4493-4501(2009).