

# CDC20 Antibody (N-term) Blocking Peptide

Synthetic peptide Catalog # BP9138a

# Specification

# CDC20 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession

<u>Q12834</u>

# 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 <a href=/products/AP9138a>AP9138a</a> 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

Substrate-specific adapter of the anaphase promoting complex/cyclosome (APC/C) complex that confers substrate specificity by binding to substrates and targeting them to the APC/C complex for ubiquitination and degradation (PubMed:<a href="http://www.uniprot.org/citations/9734353" target="\_blank">9734353</a>, PubMed:<a href="http://www.uniprot.org/citations/27030811" target="\_blank">9734353</a>, PubMed:<a href="http://www.uniprot.org/citations/27030811" target="\_blank">27030811</a>, PubMed:<a href="http://www.uniprot.org/citations/29343641" target="\_blank">29343641</a>). Recognizes and binds the destruction box (D box) on protein substrates (PubMed:<a href="http://www.uniprot.org/citations/29343641" target="\_blank">29343641</a>). Involved in the metaphase/anaphase transition of cell cycle (PubMed:<a href="http://www.uniprot.org/citations/32666501" target="\_blank">32666501</a>). Involved in the metaphase/anaphase transition of cell cycle (PubMed:<a href="http://www.uniprot.org/citations/32666501" target="\_blank">32666501</a>). 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 (PubMed:<a

href="http://www.uniprot.org/citations/9811605" target=" blank">9811605</a>, PubMed:<a



href="http://www.uniprot.org/citations/9637688" target="\_blank">9637688</a>). The CDC20-APC/C complex positively regulates the formation of synaptic vesicle clustering at active zone to the presynaptic membrane in postmitotic neurons (By similarity). CDC20-APC/C-induced degradation of NEUROD2 induces presynaptic differentiation (By similarity). 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.

#### <u>Blocking Peptides</u>

## 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).