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CDC20 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP9138a

Specification

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

Primary 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 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

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).

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.

Cellular Location
Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. 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