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# CDC20 Antibody (N-term)

**Affinity Purified Rabbit Polyclonal Antibody (Pab)**

**Catalog # AP9138a**

## Specification

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

| | |
|---|---|
| Application | **WB, FC,E** |
| Primary Accession | Q12834 |
| Other Accession | Q5H7C0 |
| Reactivity | **Human** |
| Predicted | **Pig** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |
| Isotype | **Rabbit Ig** |
| Antigen Region | **57-84** |

### CDC20 Antibody (N-term) - Additional Information

**Gene ID** 991

**Other Names**
Cell division cycle protein 20 homolog, p55CDC, CDC20

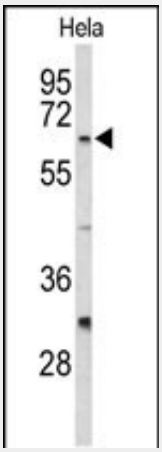
**Target/Specificity**
This CDC20 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 57-84 amino acids from the N-terminal region of human CDC20.

**Dilution**
WB~~1:1000
FC~~1:10~50

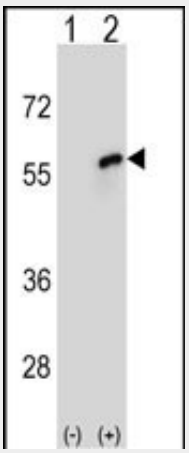
**Format**
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**
CDC20 Antibody (N-term) is for research use only and not for use in diagnostic or




Western blot analysis of CDC20 Antibody (N-term) (Cat. #AP9138a) in Hela cell line lysates (35ug/lane). CDC20 (arrow) was detected using the purified Pab.




Western blot analysis of CDC20 (arrow) using rabbit polyclonal CDC20 Antibody (N-term) (Cat. #AP9138a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the CDC20 gene.

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therapeutic procedures.

**CDC20 Antibody (N-term) - Protein Information**

**Name** CDC20

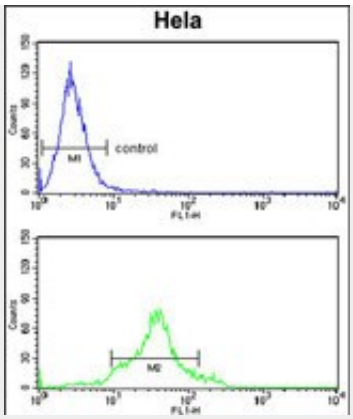
**Function**
Required for full ubiquitin ligase activity of the anaphase promoting complex/cyclosome (APC/C) and may confer substrate specificity upon the complex. Is regulated by MAD2L1: in metaphase the MAD2L1-CDC20-APC/C ternary complex is inactive and in anaphase the CDC20-APC/C binary complex is 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) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture




CDC20 Antibody (N-term) (Cat. #AP9138a) flow cytometry analysis of Hela cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

## CDC20 Antibody (N-term) - 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) - References

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