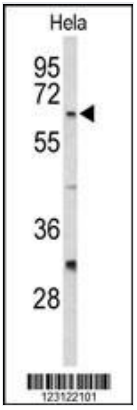
# CDC20 Antibody – Rabbit Polyclonal

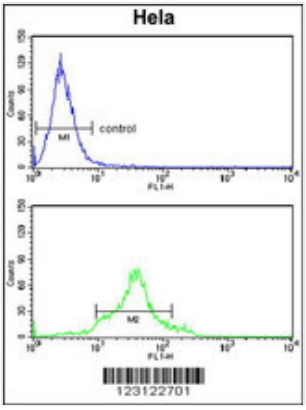
## PRODUCT OVERVIEW

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|---|---|
| **Product Name** | CDC20, Polyclonal Antibody |
| **Full Product Name** | CDC20, NT (CDC20, Cell division cycle protein 20 homolog, p55CDC) (Azide free) (HRP) |
| **Product Gene Name** | anti-CDC20 antibody |
| **Product Synonym Names** | CDC20; Cell division cycle protein 20 homolog; p55CDC |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Horseradish Peroxidase (HRP). |
| **Purity/Purification** | Purified by Protein A Affinity Chromatography. |
| **Preparation and Storage** | Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. |
| **Molecular Weight** | 54,723 Da |
| **Chromosome Location** | Chromosome: 1; NC_000001.10 (43824626..43828874). Location: 1p34.1 |
| **OMIM** | 603618 |
| **3D Structure** | ModBase 3D Structure for Q12834 |
| **Immunogen** | CDC20 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the N-terminal region of human CDC20. |
| **Conjugate** | HRP |
| **Note** | Preservative Free |
| **Product Categories/Family for anti-CDC20 antibody** | Antibodies; Cell Division Cycle (CDC) |
| **Applications Tested/Suitable for anti-CDC20 antibody** | Western Blot (WB), ELISA (EIA) |
| **Application Notes for anti-CDC20 antibody** | WB: 1:100-500<br>ELISA: 1:1,000<br>Applications are based on unconjugated antibody. |
| **Related Product Information for anti-CDC20 antibody** | 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. |
| **Product References and Citations for anti-CDC20 antibody** | Ge S., et.al., Cell Cycle 8:167-171(2009). Gauci S., et.al., Anal. Chem. 81:4493-4501(2009). |
| **Other Notes** | Small volumes of anti-CDC20 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

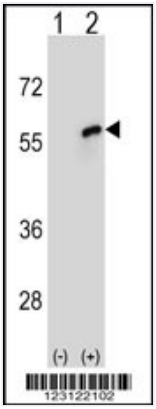
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| **Searchable Terms for CDC20 purchase** | MBS6283746 is an antibody targeting CDC20. Also known as CDC20, NT (CDC20, Cell division cycle protein 20 homolog, p55CDC) (Azide free) (HRP). Reactive in Human. Host: Rabbit. |




**Western Blot (WB) of anti-CDC20 antibody**
Western blot analysis of CDC20 Antibody (N-term) in Hela cell line lysates (35ug/lane). CDC20 (arrow) was detected using the purified Pab.




**Flow Cytometry (FC/FACS) of anti-CDC20 antibody**
CDC20 Antibody (N-term) 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.




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

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CDC20. It may not necessarily be applicable to this product.

| | |
|---|---|
| **NCBI GI #** | 118402582 |
| **NCBI GeneID** | 991 |
| **NCBI Accession #** | NP_001246.2 |
| **UniProt Primary Accession #** | Q12834 |
| **UniProt Secondary Accession #** | Q5JUY4; Q9BW56; Q9UQI9; B2R6Z6; D3DPJ1 |
| **UniProt Related Accession #** | Q12834 |
| **GenBank Nucleotide #** | NM_001255.2 |
| **NCBI Official Full Name** | cell division cycle protein 20 homolog |
| **NCBI Official Synonym Full Names** | cell division cycle 20 |
| **NCBI Official Symbol** | CDC20 |
| **NCBI Official Synonym Symbols** | CDC20A; p55CDC; bA276H19.3 |

| | |
|---|---|
| **UniProt Protein Name** | Cell division cycle protein 20 homolog |
| **UniProt Synonym Protein Names** | p55CDC |
| **Protein Family** | Anaphase-promoting complex |
| **UniProt Gene Name** | CDC20 |
| **UniProt Entry Name** | CDC20_HUMAN |
| **NCBI Protein Information** | cell division cycle protein 20 homolog; cell division cycle 20 homolog; CDC20 cell division cycle 20 homolog |
| **NCBI Summary for CDC20** | CDC20 appears to act as a regulatory protein interacting with several other proteins at multiple points in the cell cycle. It is required for two microtubule-dependent processes, nuclear movement prior to anaphase and chromosome separation. [provided by RefSeq, Jul 2008] |
| **UniProt Comments for CDC20** | CDC20: 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. Found in a complex with CDC20, CDC27, SPATC1 and TUBG1. Interacts with SPATC1. Interacts with NEUROD2. Interacts with MAD2L1 and BUB1B. The phosphorylated form interacts with APC/C. Interacts with NINL. May interact with MAD2L2. Interacts with CDK5RAP2. Interacts with isoform 1 of NEK2. Belongs to the WD repeat CDC20/Fizzy family.<br><br>Protein type: Ubiquitin conjugating system; Cell cycle regulation<br><br>Chromosomal Location of Human Ortholog: 1p34.1<br><br>Cellular Component: nucleoplasm; spindle pole; centrosome; anaphase-promoting complex; perinuclear region of cytoplasm; cytoplasm; spindle; cytosol; nucleus<br><br>Molecular Function: protein C-terminus binding; protein binding; enzyme binding<br><br>Biological Process: positive regulation of ubiquitin-protein ligase activity during mitotic cell cycle; mitosis; negative regulation of ubiquitin-protein ligase activity during mitotic cell cycle; positive regulation of synaptic plasticity; regulation of meiosis; regulation of dendrite development; protein ubiquitination; cell cycle; anaphase-promoting complex activation; regulation of ubiquitin-protein ligase activity during mitotic cell cycle; anaphase-promoting complex-dependent proteasomal ubiquitin-dependent protein catabolic process; cell division; positive regulation of cell proliferation; mitotic cell cycle spindle assembly checkpoint; mitotic cell cycle |
| **Research Articles on CDC20** | **1.** Nek2A binds with high affinity to apo-APC/C and is degraded by the pool of Cdc20 that avoids inhibition by the spindle assembly checkpoint. |
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