

Rabbit CDC20 Polyclonal Antibody | anti-CDC20 antibody

CDC20 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA307461	Rabbit	Human, Mouse, Rat	Immunofluorescence, Immunohistochemistry, Western Blot

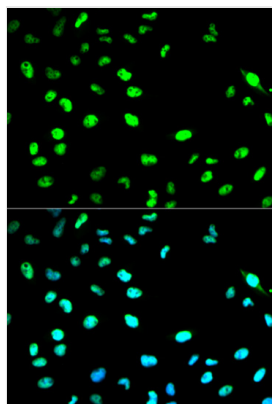
PRODUCT SYNONYMS

CDC20; Polyclonal Antibody; CDC20 Antibody; CDC20A; MGC102824; bA276H19.3; p55CDC; anti-CDC20 antibody

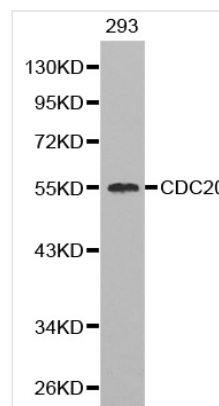
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Specificity	The antibody detects endogenous level of total CDC20 protein.
Purity/Purification	Antibodies were purified by affinity purification using immunogen.
Form/Format	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1.0 mg/ml (varies by lot)
Sequence Length	499
Applicable Applications for anti-CDC20 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human CDC20.
Target Name	CDC20
Preparation and Storage	Store at -20 degree C

IMAGES


IF (Immunofluorescence)

Immunofluorescence analysis of HeLa cell using CDC20 antibody. Blue: DAPI for nuclear staining.


WB (Western Blot)

Western blot analysis of 293 cell lysate using CDC20 antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-CDC20 antibody	The cell division cycle demands accuracy to avoid the accumulation of genetic damage. This process is controlled by molecular circuits called "checkpoints" that are common to all eukaryotic cells (1). Checkpoints monitor DNA integrity and cell growth prior to replication and division at the G1/S and G2/M transitions, respectively. The cdc2-cyclin B kinase is pivotal in regulating the G2/M transition (2,3). Cdc2 is phosphorylated at Thr14 and Tyr15 during G2-phase by the kinases Wee1 and Myt1, rendering it inactive. The tumor suppressor protein retinoblastoma (Rb) controls progression through the late G1 restriction point (R) and is a major regulator of the G1/S transition (4). During early and mid G1-phase, Rb binds to and represses the transcription factor E2F (5). The phosphorylation of Rb late in G1-phase by CDKs induces Rb to dissociate from E2F, permitting the transcription of S-phase-promoting genes. In vitro, Rb can be phosphorylated at multiple sites by cdc2, cdk2, and cdk4/6 (6-8). DNA damage triggers both the G2/M and the G1/S checkpoints. DNA damage activates the DNA-PK/ATM/ATR kinases, which phosphorylate Chk at Ser345 (9), Chk2 at Thr68 (10) and p53 (11). The Chk kinases inactivate cdc25 via phosphorylation at Ser216, blocking the activation of cdc2. CDC20 binds to and activates the anaphase-promoting complex (APC) during mitosis and G1 phase of the cell cycle (12). Moreover, CDC20 is necessary for ubiquitin ligase activity of the APC/cyclosome (APC/C). In metaphase MAD2L1 inactivates the CDC20-APC/C complex, while in anaphase this inhibition is lost and CDC20-APC/C degrades its substrates (13). p53 and p21 suppress expression of CDC20 upon genotoxic stresses and ectopic introduction of p53. siRNA mediated knock-down of CDC20 in cancer cells leads to attenuated cell growth and induces G(2)/M arrest, suggesting that CDC20 is a possible therapeutic target of cancer (14). Organization of neuronal circuits requires presynaptic axonal differentiation and synapse formation. CDC20-APC regulates presynaptic differentiation in postmitotic neurons by triggering the required degradation of the transcription factor NeuroD2 (15)
Product Categories/Family for anti-CDC20 antibody	Total protein Ab

NCBI AND UNIPROT INFORMATION

NCBI GI #	118402582
NCBI GeneID	991
NCBI Accession #	NP_001246.2
NCBI GenBank Nucleotide #	NM_001255.2
UniProt Accession #	Q12834; Q5JUY4; Q9BW56; Q9UQI9; B2R6Z6; D3DPJ1
Molecular Weight	54,723 Da
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
NCBI Protein Information	cell division cycle protein 20 homolog
UniProt Protein Name	Cell division cycle protein 20 homolog
UniProt Gene Name	CDC20
UniProt Entry Name	CDC20_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/cdc20-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/307461>