

# Cdc20 (Cell Division Cycle Protein 20) Antibody - With BSA and Azide

Mouse Monoclonal Antibody [Clone CDC20/1102 ]

Catalog # AH12829

## Product Information

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Application	IHC, IF, FC
Primary Accession	<a href="#">Q12834</a>
Other Accession	<a href="#">991</a> , <a href="#">524947</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG1, kappa
Clone Names	CDC20/1102
Calculated MW	54723

## Additional Information

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Gene ID	991
Other Names	Cell division cycle protein 20 homolog, p55CDC, CDC20
Application Note	IHC~~1:100~500 IF~~1:50~200 FC~~1:10~50
Storage	Store at 2 to 8°C.Antibody is stable for 24 months.
Precautions	Cdc20 (Cell Division Cycle Protein 20) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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Name	CDC20
Function	<p>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="#">9734353</a>, PubMed:<a href="#">27030811</a>, PubMed:<a href="#">29343641</a>). Recognizes and binds the destruction box (D box) on protein substrates (PubMed:<a href="#">29343641</a>). Involved in the metaphase/anaphase transition of cell cycle (PubMed:<a href="#">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="#">9811605</a>, PubMed:<a href="#">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</p>

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

## Background

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Cyclins, regulatory subunits, which associate with kinases, control many of the important steps in cell cycle progression. The Cdc2 protein kinase (p34Cdc2) exhibits protein kinase activity in vitro and exists in a complex with both cyclin B and a protein homologous to p13SUC1. Cdc2 kinase is the active subunit of the M phase promoting factor (MPF) and the M phase-specific Histone H1 kinase. The p34Cdc2/cyclin B complex is required for the G2 to M transition. An additional cell cycle-dependent protein kinase, termed p55cdc, exhibits a high degree of homology with the *S. cerevisiae* proteins Cdc20 and Cdc4. The p55cdc transcript is readily detectable in a variety of cultured cell lines in growth phase, but disappears when cell growth is chemically arrested.

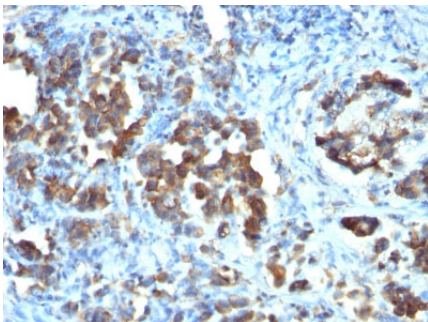
## References

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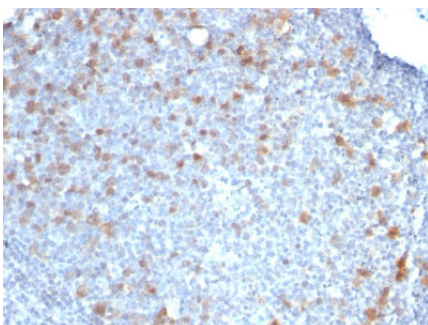
Sironi L et al. 2001. EMBO J. 20(22):6371-82.

## Images

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Formalin-fixed, paraffin-embedded human Gastric Carcinoma stained with CDC20 Monoclonal Antibody (CDC20/1102)



Formalin-fixed, paraffin-embedded human Tonsil stained with CDC20 Monoclonal Antibody (CDC20/1102)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.