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

Mouse Monoclonal Antibody [Clone CDC20/1102]
Catalog # AH12829

Specification

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

Application	**IHC, IF, FC**
Primary Accession	Q12834
Other Accession	991, 524947
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**Mouse / IgG1, kappa**
Calculated MW	**55kDa KDa**

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

Gene ID 991

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

Application Note
IHC~~1:100~500<br \>IF~~1:50~200<br \>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.

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

Name CDC20

Function
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:9734353, PubMed:27030811, PubMed:29343641). Recognizes and binds the destruction box (D box) on protein substrates (PubMed:<a href="http://www.uniprot.org/citations/29343641"

target="_blank">29343641). Involved in the metaphase/anaphase transition of cell cycle (PubMed:32666501). 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:9811605, PubMed:9637688). 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 differentiation (By similarity). The CDC20- APC/C complex promotes proper dilation formation and radial migration by degrading CCDC41 (By similarity).

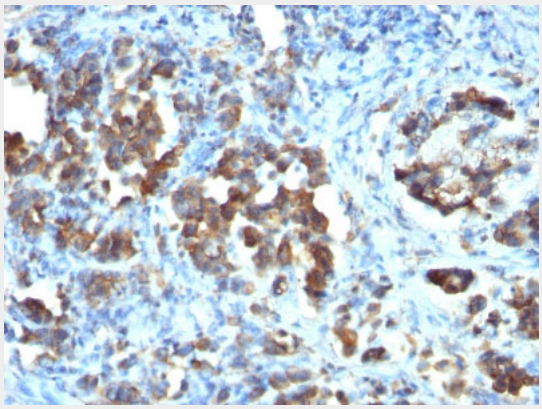
Cellular Location
Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Chromosome, centromere, kinetochore. Cytoplasm, cytoskeleton, spindle pole

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



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

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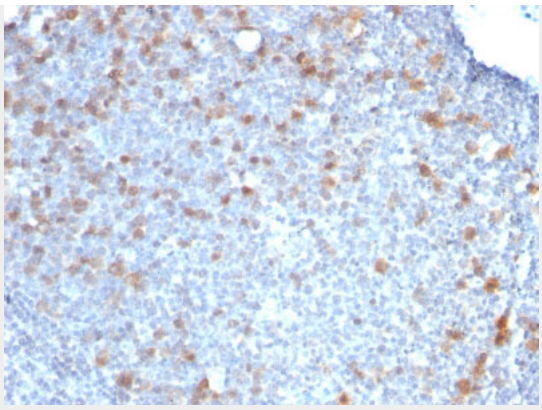

Formalin-fixed, paraffin-embedded human Tonsil stained with CDC20 Monoclonal Antibody (CDC20/1102)

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

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.

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

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