

Mouse Anti-cdc20 [AR12]: MC0712, MC0712RTU7

Intended Use: For Research Use Only

Description: 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.

Specifications:

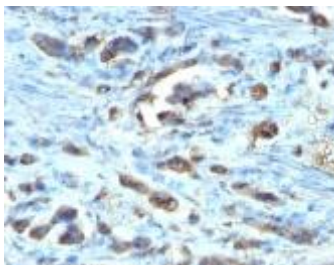
Clone: AR12
 Source: Mouse
 Isotype: IgG1k
 Reactivity: Human
 Localization: Cytoplasm
 Formulation: Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN₃)
 Storage: Store at 2°- 8°C
 Applications: IHC, Flow Cyt., IF
 Package:

Description	Catalog No.	Size
cdc20 Concentrated	MC0712	1 ml
cdc20 Prediluted	MC0712RTU7	7 ml

IHC Procedure*:

Positive Control Tissue: Tonsil
 Concentrated Dilution: 50-200
 Pretreatment: Citrate pH6.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
 Incubation Time and Temp: 30-60 minutes @ RT
 Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human gastric carcinoma stained with anti-cdc20 using DAB

References:

1. Mitotic phosphatase activity is required for MCC maintenance during the spindle checkpoint. Foss KM, et al. *Cell Cycle* 15:225-33, 2016.
2. Conserved Senescence Associated Genes and Pathways in Primary Human Fibroblasts Detected by RNA-Seq. Marthandan S, et al. *PLoS One* 11:e0154531, 2016.
3. Integrity of the Pericentriolar Material Is Essential for Maintaining Centriole Association during M Phase. Seo MY, et al. *PLoS One* 10:e0138905, 2015.
4. The E3 ligase APC/C-Cdh1 regulates MEF2A-dependent transcription by targeting SUMO-specific protease 2 for ubiquitination and degradation. Lu H, et al. *Cell Cycle* 13:3892-902, 2014.

Doc. 100-MC0712
Rev. A