| e at -20C | Cyclin B1 Antibody | T E | ell Signaling сныогоду [®] |
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For Research Use Only. Not for Use in Diagnostic Procedures.

| Applications: WB, IF-IC | Reactivity: H M R Hm Mk | Sensitivity: Endogenous | MW (kDa): 55 | Source: Rabbit | UniProt ID: #P14635 | Entrez-Gene Id: 891 |
|--------------------------------------|---|--|--|---|---|---|
| Product Usage Information | | lication stern Blotting | | | | Dilution 1:1000 |
| | | 0 | Immunocytochemis | trv) | | 1:400 |
| Storage | Supp | · | ium HEPES (pH 7.5 | ., | 00 μg/ml BSA and 50% | |
| Specificity / Sens | itivity Cycli | n B1 Antibody dete | ects endogenous lev | vels of total cyclin B | 1. | |
| Source / Purificat | resid | | | - | h a syntheic peptide co ies are purified using po | |
| Background | throu the G subu state deph (Ser1 thoug accur like k end o for ce | gh the cell cycle. T 62/M transition. Th nit, cyclin B1, to co until phosphorylati osphorylation of co 116, 126, 128, 133 ght to regulate the mulation and initia cinase 1 (PLK1) ph of mitosis, cyclin B ell cycle progressio | The entry of all euka is activation is a mu dc2/cdk1 to form the ion of cdc2/cdk1 at dc2/cdk1 at Thr14/T , and 147) are locat translocation of cyc tion of mitosis (6-9). osphorylates cyclin 1 is targeted for deg | ryotic cells into mito lti-step process that mitosis-promoting Thr161 by cdk activ yr15 by cdc25C (3- ed in the cytoplasm lin B1 to the nucleus While MPF itself ca B1 preferentially at gradation by the ana- udies have shown t | pendent kinases require basis is regulated by active begins with the binding factor (MPF). MPF rem rating kinase (CAK) (1,2 5). Five cyclin B1 phosp ic retention signal (CRS is at the G2/M checkpoin an phosphorylate Ser12 Ser133 and possibly at phase-promoting comp hat cyclin B1 is overexp | vation of cdc2/cdk1 at g of the regulatory ains in the inactive 2) and bhorylation sites 5) domain and are nt, promoting nuclear 26 and Ser128, polo- t Ser147 (6,10). At the blex (APC), allowing |
| Background Refe | 2. Ha 3. No 4. Mc 5. Att 6. Toy 7. Li, 8. Tal 9. Sa 10. Jac 11. Go 12. Ma 13. Ka | arper, J.W. and Elle orbury, C. et al. (19 cGowan, C.H. and herton-Fessler, S. yoshima-Morimoto J. et al. (1997) Pro- kizawa, C.G. and I untos, S.D. et al. (2 ckman, M. et al. (2 ong, D. and Ferrell ashal, R.D. et al. (1 wamoto, H. et al. (1 |) <i>EMBO J</i> 11, 2381- edge, S.J. (1998) <i>Ge</i> 91) <i>EMBO J</i> 10, 33 Russell, P. (1993) <i>E</i> et al. (1994) <i>Mol Bio</i> , F. et al. (2001) <i>Na</i> <i>bo Natl Acad Sci U S</i> Morgan, D.O. (2000 012) <i>Cell</i> 149, 1500 003) <i>Nat Cell Biol</i> 5 , J.E. (2010) <i>Mol Bio</i> .996) <i>Cancer Res</i> 5 (1997) <i>Am J Pathol</i> 00) <i>Cancer Res</i> 60, | enes Dev 12, 285-9. 21-9. 5MBO J 12, 75-85. of Cell 5, 989-1001. ture 410, 215-20. 5 A 94, 502-7.) Curr Opin Cell Bio 0-13. 5, 143-8. of Cell 21, 3149-61. 6, 4159-63. 150, 15-23. | | |
| Species Reactivit | y Specie | es reactivity is dete | ermined by testing i | n at least one appro | ved application (e.g., w | restern blot). |
| Western Blot Buf | | | rn blots, incubate m with gentle shaking | | d primary antibody in 5 | % w/v BSA, 1X TBS, |
| Applications Key Cross-Reactivity | | Western Blotting II | F-IC: Immunofluore: | scence (Immunocyt | ochemistry) | |

https://www.cellsignal.com/datasheet.jsp?productId=4138&images=0&protocol=0

| 1/1/24, 12:26 PM | Cyclin B1 Antibody (#4138) Datasheet Without Images Cell Signaling Technology H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected | | | |
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