

## Cyclin Antibody Sampler Kit



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1 Kit (8 x 20 microliters)

**For Research Use Only. Not for Use in Diagnostic Procedures.**

Product Includes	Product #	Quantity	Mol. Wt	Isotype/Source
Cyclin A2 (BF683) Mouse mAb	4656	20 µl	55 kDa	Mouse IgE
Cyclin B1 Antibody	4138	20 µl	55 kDa	Rabbit
Cyclin D1 (92G2) Rabbit mAb	2978	20 µl	36 kDa	Rabbit IgG
Cyclin D2 (D52F9) Rabbit mAb	3741	20 µl	31 kDa	Rabbit IgG
Cyclin D3 (DCS22) Mouse mAb	2936	20 µl	31 kDa	Mouse IgG1
Cyclin E1 (HE12) Mouse mAb	4129	20 µl	48 kDa	Mouse IgG1
Cyclin E2 Antibody	4132	20 µl	48 kDa	Rabbit
Cyclin H Antibody	2927	20 µl	36 kDa	Rabbit
Anti-rabbit IgG, HRP-linked Antibody	7074	100 µl		Goat
Anti-mouse IgG, HRP-linked Antibody	7076	100 µl		Horse

Please visit [cellsignal.com](http://cellsignal.com) for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.

### Description

The Cyclin Antibody Sampler Kit provides an economical means of evaluating the presence of cyclin proteins in cells. The kit contains enough primary and secondary antibodies to perform two western blot experiments with each antibody.

### Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

### Background

Control of the cell cycle is regulated by a multitude of cellular events and processes. The cyclin dependent kinases (CDK) regulate many of these pathways and constitute an active complex when associated with their cyclin partners. This activity is controlled primarily by phosphorylation, which determines subcellular localization of the CDK/cyclin complex (1,2). Some phosphorylation events control the function of cytoplasmic retention sequences while other events regulate nuclear localization and export sequence function (3,4). Cyclin and cyclin-dependent kinase inhibitor (CKI) levels are regulated by ubiquitination and degradation via the ubiquitin proteasome pathway (5). A variety of CKI proteins associate with these complexes and modulate access to regulatory domains on cyclins (6). Additional complexity is generated as the controlled protein levels of each cyclin oscillate with the stages of cell cycle. Increased expression of Cyclin D1 is associated with certain types of cancer (7,8) and may associate with TSC2 (tuberin) independent of its Cdk partner (9).

### Background References

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